

Paper Code: 1121

Programme	Course Code	Exam Code
Bachelor of Arts	BARL-1026	121201
Bachelor of Science <i>ECO</i>	BECL-1026	121301

Semester –I

Course Title: Banking (Banking and Basic Operations)

Time: 2:00 Hours

Max. Marks: 70

Note: Candidates are required to attempt thirty five (35) questions, selecting at least seven (7) questions from each section. The remaining seven (7) questions may be attempted from any section. Each question carries 2 marks.

Section A

- First Bank established in India was:
 - Bank of India
 - Bank of Hindustan
 - General Bank of India
 - None of the above
- In India, the first bank of limited liabilities managed by Indians and founded in 1881 was
 - Hindustan Commercial Bank
 - Oudh Commercial Bank
 - Punjab National Bank
 - Punjab and Sind bank
- Consider the following statements.
 - Allahabad Bank was the first bank to be established exclusively by Indians.
 - Seven Banks forming subsidiary of State Bank of India was nationalized in 1960.

Which of the statement(s) given above is/are correct?

 - Only I
 - Only II
 - Both I & II
 - Neither I & II
- Which bank became the State Bank of India in 1955?
 - General Bank of India
 - Bank of Hindustan
 - Imperial bank of India
 - None of the Above

5. A scheduled bank is the one which is included in the
 - (a) II Scheduled of Banking Regulation Act
 - (b) II Scheduled of Constitution
 - (c) II Scheduled of RBI Act
 - (d) All of the Above
6. Recent mergers of Punjab National Bank with which of the following banks.
 - (a) United Bank of India
 - (b) Oriental Bank of Commerce
 - (c) Both of these
 - (d) None of the above
7. When was the second phase of nationalization done?
 - (a) 9th July, 1969
 - (b) 10th July, 1968
 - (c) 16th August, 1985
 - (d) 15th April, 1980
8. The SARFAESI Act Amendment Bill 2016 provides the facilities that the District Magistrate has to assist in the recovery process of the secured creditors and complete process within
 - (a) 10 days
 - (b) 30 days
 - (c) 45 days
 - (d) 50 days
9. Which one of the following is incorrectly matched?

<u>Committee Name</u>	<u>Area Covered</u>
(a) Y V Reddy	Small saving Reforms
(b) Deepak Mohanty	Base Rate
(c) Justice MB Shah	Financial inclusion
(d) AK khandelwal	HR Issues of PSBs
10. Narasimham Committee recommended to reduce SLR and CLR to
 - (a) 25% and 3.5% respectively
 - (b) 24% and 3.5% respectively
 - (c) 25% and 3 to 5% respectively
 - (d) 25% and 5% respectively
11. The Banking Regulation Act was initially passed by what name?
 - (a) Banking Firms Act, 1949
 - (b) Banking Companies Act, 1949
 - (c) Banking units Act, 1949
 - (d) None
12. Which section was added in the Banking regulation Act to include the Cooperative Banks under its purview?
 - (a) Section 61
 - (b) Section 56
 - (c) Section 35
 - (d) Section 28

13. Which of the following entities are not covered under the Banking Regulation Act 1949?

- (a) Public Sector banks (b) Cooperative Banks
(c) Primary Agricultural Credit Society (d) All of the above

Section B

14. Banking Ombudsman Scheme was introduced under Section 35A of the Banking Regulation Act, 1949 by the RBI in

- (a) 1975 (b) 1980 (c) 1995 (d) 2000

15. Banking Ombudsman Scheme is applicable to the business of

- (a) all scheduled commercial banks excluding RRBs
(b) all scheduled commercial banks including RRBs
(c) only Public sector banks
(d) all banking companies

16. Who is the present Governor of RBI?

- (a) Shri Shaktikanta Das (b) Urjit R Patel
(c) Dr. YV Reddy (d) Dr. Raghuram Govind Rajan

17. RBI has replaced BPLR regime by the Base Rate regime w.e.f.:

- (a) July 1, 2010 (b) July 5, 2010
(c) July 11, 2010 (d) July 15, 2010

18. The Reserve Bank of India is also called the lender of the last resort to Scheduled Commercial Banks because:

- (a) RBI meets directly or indirectly all the reasonable demands for financial accommodation subject to terms and conditions of the discount rate policy of RBI.
(b) They are not able to get facilities from other banks.
(c) Both of the above
(d) None of the above

19. Which of the following fall under the qualitative methods of credit control adopted by Reserve Bank of India.

- (a) Selective Credit Control (b) Credit Authorisation Scheme
(c) Moral Suasion (d) All of the above

20. Which Instrument is used by the reserve Bank of India to control market liquidity.
- (a) Repo Rate (b) Reverse Repo rate
(c) Marginal adjustment Facility (d) Both (a) and (b)
21. The bank rate means:
- (a) Rate of interest charged by commercial banks from borrowers
(b) Rate of interest at which commercial banks discounted bills of their borrowers
(c) Rate of interest allowed by commercial banks on their deposits
(d) Rate at which RBI purchases or rediscount bills of exchange of commercial banks.
22. What is financial Inclusion?
- (a) To provide a permanent employment to the unemployed.
(b) To provide a 100 days job to all those who are in need of a job.
(c) To provide banking services to all those living in remote areas.
(d) To ensure that all financial transactions amounting Rs. 5,000/- and above are done through banks.
23. According to Basel 1, the minimum capital requirement was fixed at ___% of risk weighted assets (RWA)?
- (a) 6% (b) 8% (c) 9% (d) 4%
24. To calculate capital adequacy ratio, the banks are required to take into account which of the following risks?
- (a) Credit risk and operational risk
(b) Market risk and operational risk
(c) Credit risk and market risk
(d) Credit risk, market risk, operational risk
25. How many pillars is the Basel II Framework based?
- (a) 1 (b) 2 (c) 3 (d) 4
26. In which year did Basel –III guidelines were released by BCBS?
- (a) 2005 (b) 2008 (c) 2010 (d) 2012

Section –C

27. Which of the following types of accounts are known as 'DEMAT accounts'?
- (a) Accounts in which shares of various companies are traded in electronic form,
 - (b) Accounts which are zero balance accounts.
 - (c) Accounts which are operated through internet banking facility.
 - (d) Accounts which are opened to facilitate repayment of a loan taken from the bank.
28. What is the minimum period for which a fixed deposit can be opened in India?
- (a) 3 days
 - (b) 7 days
 - (c) 15 days
 - (d) 30 days
29. Cheque truncation can be done by?
- (a) using MICR Data
 - (b) Sending cheque by speed post
 - (c) using image processing
 - (d) None of the above
30. A cheque is considered as stale when it has been in circulation for
- (a) More than forty eight hours
 - (b) more than six months unless otherwise specified
 - (c) more than one year
 - (d) more than three months
31. A cheque is defined under ____ of Negotiable Instrument Act, 1881
- (a) Section 5
 - (b) Section 6
 - (c) Section 7
 - (d) Section 8
32. A cheque with data written on it 01-02-2017 is presented in a bank on 05-02-2017. This cheque is an example of ____.
- (a) Post-dated cheque
 - (b) Ante-dated cheque
 - (c) Stale cheque
 - (d) None of these
33. What is the full form of the NEFT.
- (a) National Electronic fund transfer
 - (b) Negotiated Efficient fund transfer
 - (c) National Efficient fund transfer
 - (d) Non Effective Fund Transfer

34. In which of the following fund transfer mechanisms, can funds be moved from one bank to another and where the transaction is settled instantly without being bunched with any other transaction?
- (a) RTGS (b) NEFT (c) TT (d) EFT
35. Unified Payment Interface has been developed by NPCI. What is NPCI
- (a) New Payments Corporation of India
(b) National Payments Company of India
(c) National Payments Corporation of India
(d) National Payments Corporation of Interface
36. Select the important feature of UPI from the following
- I. All UPI-enabled banks will allow their apps to be consolidated.
II. The service is available 24*7.
III. Charges can be applied depending on the amount of money transferred.
- (a) Only I (b) I, II and III (c) I and III (d) II and III
37. To which of the following personalities is the BHIM app dedicated?
- (a) Mahatma Gandhi (b) Subhash Chandra Bose
(c) Dr. B.R Ambedkar (d) Jawahar Lal Nehru
38. Consider the following statement(s) regarding IFSC.
- I. IFSC is an alphanumeric code.
II. IFSC is the 11 digit code.
III. IFSC is used by NEFT
- (a) I and II (b) I, II and III
(c) II and III (d) Only III
39. What do you understand by 'Para Banking' services?
- (a) Eligible financial services rendered by banks
(b) Utility services provided by banks
(c) Services provided through business correspondents.
(d) Services provided to armed force personal.

Section-D

40. MUDRA Bank has been setup with only one goal in mind.
- (a) fulfilling all the funding needs of small businesses.
 - (b) fulfilling all the funding needs of Corporate small business.
 - (c) fulfilling all the funding needs of Non – Corporate business.
 - (d) fulfilling all the funding needs of Non- Corporate small business.
41. Non – farm micro units are eligible for how much loan under MUDRA Scheme?
- (a) Rs. 5 lakh
 - (b) Rs. 10 lakh
 - (c) Rs. 20 lakh
 - (d) Rs. 20 lakh
42. A Laghu Udami credit card(LUCC) is valid for
- (a) 2 years
 - (b) 3 years
 - (c) 4 years
 - (d) 5 years
43. Which of the following is not correct in the context of swairozgar credit card:
- (a) it can be issued uo to Rs. 25000.
 - (b) banks have discretion to enhance the amount
 - (c) the validity period is maximum 5 years.
 - (d) 50% of the outstanding is to be shown as indirect agri advance.
44. Regarding, General credit card (GCC) which of the following is not true:
- (a) can be issued to any person otherwise eligible for a priority sector loan.
 - (b) can be issued in rural and semi-urban areas only.
 - (c) can be issued for an amount at bank discretion.
 - (d) validity period restricted to 5 years.
45. KCC (Kisan Credit Card) was launched in which year?
- (a) 1989
 - (b) 1998
 - (c) 1999
 - (d) 1982

46. A holder of KCC (Kisan Credit Card) is also covered with a personal accident cover _____ amount
 (a) 50 K (b) 20 K (c) 1 Lakh (d) 2 Lakhs
47. Pradhan Mantri Fasal Bima Yojana guidelines were issued in MP by PM Narendra Modi on 18th February. Which of the following is true about PMFBY?
 (a) It is a scheme for crop insurance.
 (b) It came into force from 2016 Kharif season
 (c) Aims at boosting agricultural sector of India
 (d) All of the above
48. A substandard asset is one, which has remained NPA for a period less than or equal to _____.
 (a) 6 months (b) 12 months (c) 18 months (d) 24 months
49. Which first bank in India to fully own an insurance business?
 (a) HDFC Bank (b) Kotak Mahindra Bank
 (c) ICICI Bank (d) IDBI Bank
50. Which of the following is the only public sector company in the field of life insurance?
 (a) General insurance company
 (b) New India assurance company
 (c) Life Insurance Corporation of India
 (d) SBI life insurance company
51. Bancassurance is a relationship between bank and
 (a) Education (b) Insurance company
 (c) Employee (d) Customer
52. Choose the correct statements regarding IRDAI.
 (i) The IRDA has changed its name to IRDAI on 26th Dec., 2014.
 (ii) IRDAI was established in the year 2004.
 (iii) The organization was set up under the guidelines of IRDA Act, 2004.
 (a) only i (b) i and ii (c) i, ii, and iii (d) None of these

Paper Code: 1105

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1031 ✓
Bachelor of Science (Medical)	121301	BSML-1031 ✓
Bachelor of Science (Non-Medical)		BSNL-1031 ✓
Bachelor of Science (Computer Science)		BCSL-1031 ✓
Bachelor of Science (Economics)		BECL-1031
Bachelor of Science (Medical Laboratory Technology)	509701	BMLL-1031 ✓
Bachelor of Commerce	121101	BCRL-1031
Bachelor of Business Administration	121701	BBRL-1031
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1031
Bachelor of Arts (Journalism and Mass Communications)	116401	BJML-1031 ✓
Bachelor of Science (Fashion Designing)	119601	BFDL-1031
Bachelor of Science (Home Science)	119701	BHSL-1031 ✓
Bachelor of Computer Applications	117901	BCAL-1031
Bachelor of Science (Information Technology)	118001	BITL-1031
Bachelor of Science (Bio-Technology)	120601	BBTL-1031 ✓

Semester-I

Course Title: Basic Punjabi
(50)

Time Allowed: 3 Hours**Max Marks: 70**

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 14 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-I

1. ਪੰਜਾਬੀ ਵਰਣਮਾਲਾ ਨੂੰ ਤਰਤੀਬਵਾਰ ਲਿਖੋ।
2. ਲਗਾਖਰ ਕੀ ਹੁੰਦੇ ਹਨ? ਬਿੰਦੀ, ਟਿੱਪੀ ਤੇ ਅੱਧਕ ਨਾਲ ਸੰਬੰਧਿਤ ਪੰਜ-ਪੰਜ ਸ਼ਬਦ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-II

3. ਸੰਯੁਕਤ ਸ਼ਬਦਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।
4. ਮੂਲ ਸ਼ਬਦ ਕੀ ਹੁੰਦੇ ਹਨ? ਮੂਲ ਸ਼ਬਦਾਂ ਨਾਲ ਚਾਰ-ਚਾਰ ਅਗੇਤਰ ਤੇ ਪਿਛੇਤਰ ਸ਼ਬਦ ਬਣਾਓ।

ਸੈਕਸ਼ਨ-III

5. ਰਿਸ਼ਤੇਨਾਤਿਆਂ ਅਤੇ ਹੋਰ ਧੰਦਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸੱਤ-ਸੱਤ ਸ਼ਬਦ ਲਿਖੋ।
6. ਬਾਜ਼ਾਰ ਅਤੇ ਖੇਤੀਬਾੜੀ ਨਾਲ ਸੰਬੰਧਿਤ ਸੱਤ-ਸੱਤ ਸ਼ਬਦ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-IV

7. ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ ਲਿਖੋ।
8. ਹੇਠ ਲਿਖੇ ਅੰਕਾਂ ਦਾ ਪੰਜਾਬੀ ਰੂਪ ਲਿਖੋ
7,8,11,16,24,33,36

Paper Code: 1120

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1175
Bachelor of Science <i>Elo.</i>	121301	BECL-1175

Semester – I

Course Title: Economics (Microeconomics)

Time Allowed: 3 Hours

Maximum Marks: 70

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

Section A

1. What is meant by Demand? Elaborate law of demand with the help of table and diagram.
2. Explain revealed preference theory. What are its limitations?

Section B

3. Explain the law of variable proportions. Explain various stages of this law with the help of table and diagram.
4. Explain the relationship between average revenue, marginal revenue and elasticity of demand.

Section C

5. What are the features of perfect competition? Explain the equilibrium of firm and industry in the short run.
6. Define the monopolistic competition. How price and output are determined under monopolistic competition.

Section D

7. Critically examine the marginal productivity theory of factor pricing.
8. What are the main propositions of the modern theory of rent? In what respect is it an improvement upon the Ricardian theory.

(Punjabi Version)

ਸੈਕਸ਼ਨ ਏ

1. ਮੰਗ ਤੋਂ ਕੀ ਭਾਵ ਹੈ? ਸਾਰਣੀ ਅਤੇ ਚਿੱਤਰ ਦੀ ਮਦਦ ਨਾਲ ਮੰਗ ਦੇ ਨਿਯਮ ਨੂੰ ਵਿਸਤ੍ਰਿਤ ਕਰੋ।
2. ਪ੍ਰਗਟ ਕੀਤੇ ਤਰਜੀਹ ਸਿਧਾਂਤ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। ਇਸ ਦੀਆਂ ਸੀਮਾਵਾਂ ਕੀ ਹਨ?

ਸੈਕਸ਼ਨ ਬੀ

3. ਪਰਿਵਰਤਨਸ਼ੀਲ ਅਨੁਪਾਤ ਦੇ ਨਿਯਮ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। ਸਾਰਣੀ ਅਤੇ ਚਿੱਤਰ ਦੀ ਮਦਦ ਨਾਲ ਇਸ ਕਾਨੂੰਨ ਦੇ ਵੱਖ-ਵੱਖ ਪੜਾਵਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
4. ਔਸਤ ਮਾਲੀਆ, ਸੀਮਾਂਤ ਮਾਲੀਆ ਅਤੇ ਮੰਗ ਦੀ ਲਚਕਤਾ ਵਿਚਕਾਰ ਸਬੰਧ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ ਸੀ

5. ਸੰਪੂਰਨ ਮੁਕਾਬਲੇ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਕੀ ਹਨ? ਥੋੜ੍ਹੇ ਸਮੇਂ ਵਿੱਚ ਫਰਮ ਅਤੇ ਉਦਯੋਗ ਦੇ ਸੰਤੁਲਨ ਦੀ ਵਿਆਖਿਆ ਕਰੋ..
6. ਏਕਾਧਿਕਾਰ ਮੁਕਾਬਲੇ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ। ਏਕਾਧਿਕਾਰ ਮੁਕਾਬਲੇ ਦੇ ਤਹਿਤ ਕੀਮਤ ਅਤੇ ਆਉਟਪੁੱਟ ਕਿਵੇਂ ਨਿਰਧਾਰਤ ਕੀਤੇ ਜਾਂਦੇ ਹਨ।

ਸੈਕਸ਼ਨ ਡੀ

7. ਕਾਰਕ ਕੀਮਤ ਦੇ ਸੀਮਾਂਤ ਉਤਪਾਦਕਤਾ ਸਿਧਾਂਤ ਦੀ ਆਲੋਚਨਾਤਮਕ ਤੌਰ 'ਤੇ ਜਾਂਚ ਕਰੋ।
8. ਕਿਰਾਏ ਦੇ ਆਧੁਨਿਕ ਸਿਧਾਂਤ ਦੇ ਮੁੱਖ ਪ੍ਰਸਤਾਵ ਕੀ ਹਨ? ਇਹ ਰਿਕਾਰਡੀਅਨ ਸਿਧਾਂਤ ਉੱਤੇ ਕਿਸ ਪੱਖੋਂ ਸੁਧਾਰ ਹੈ।

(For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 108701

Paper Code: 9107

Programme: Bachelor of Arts (Semester-I)

Course Title: English (Elective)

Course Code: BARL-1198

Time Allotted: 3 Hours

Max Marks: 80

Section-A

1. Attempt any three literary terms out of the given five. (Each to be answered in 100 words approximately):

- a. Sonnet
- b. Conceit
- c. Imagery
- d. Conflict
- e. Irony

(3×4=12)

Section-B

2. Write phonetic transcription of any twelve words out of the given sixteen words:

- a. Leaf
- b. Feather
- c. Wool
- d. Off
- e. Door
- f. Stair
- g. Clerk
- h. Baby
- i. Knife
- j. Sure
- k. Mirror
- l. Guage
- m. Mauve
- n. Yak
- o. Arch
- p. Shoe

(12×1=12)

Section-C

3. Attempt any one Reference to Context in about 300 words approximately.

Season of mists and mellow fruitfulness,
Close bosom-friend of the maturing sun;
Conspiring with him how to load and bless
With fruit the vines that round the thatch-eves run;
To bend with apples the moss'd cottage-trees,
And fill all fruit with ripeness to the core;
To swell the gourd, and plump the hazel shells
With a sweet kernel; to set budding more,
And still more, later flowers for the bees,
Until they think warm days will never cease,
For summer has o'er-brimm'd their clammy cells.

Who hath not seen thee oft amid thy store?
 Sometimes whoever seeks abroad may find
 Thee sitting careless on a granary floor,
 Thy hair soft-lifted by the winnowing wind;
 Or on a half-reap'd furrow sound asleep,
 Drows'd with the fume of poppies, while thy hook
 Spares the next swath and all its twined flowers:
 And sometimes like a gleaner thou dost keep
 Steady thy laden head across a brook;
 Or by a cyder-press, with patient look,
 Thou watchest the last oozings hours by hours.

OR

O my Luve's like a red, red rose
 That's newly sprung in June;
 O my Luve's like the melody
 That's sweetly played in tune.
 So fair art thou, my bonnie lass,
 So deep in luve am I;
 And I will luve thee still, my dear,
 Till a' the seas gang dry.
 Till a' the seas gang dry, my dear,
 And the rocks melt wi' the sun;
 I will love thee still, my dear,
 While the sands o' life shall run.
 And fare thee weel, my only luve!
 And fare thee weel awhile!
 And I will come again, my luve,
 Though it were ten thousand mile.

(1×8=8)

4. Attempt any two questions (each to be answered in 500 words approximately) out of the given three.

- A) Discuss the major themes of the poem 'Daffodils' by Wordsworth.
- B) Critically analyse the poem, "On His Blindness".
- C) Robert Herrick's poem 'To the Virgins to make much of Time' conveys the idea of the fleeting nature of time and the importance of youth. Do you agree with this idea?

(2×10=20)

Section-D

5. Attempt any one Reference to Context in about 300 words approximately.

Nora: There is no need you should. I never said I had borrowed the money. I may have got it some other way. (Lies back on the sofa.) Perhaps I got it from some other admirer.

When anyone is as attractive as I am - Mrs. Linde. You are a mad creature.

Nora: Now, you know you're full of curiosity, Christine.

Mrs. Linde: Listen to me, Nora dear. Haven't you been a little bit imprudent?

Nora (sits up straight): Is it imprudent to save your husband's life?

Mrs. Linde: It seems to me imprudent, without his knowledge, to --Nora. But it was absolutely necessary that he should not know! My goodness, can't you understand that? It was necessary he should have no idea what a dangerous condition he was in. It was to me that the doctors came and said that his life was in danger, and that the only thing to save him was to live in the south. Do you suppose I didn't try, first of all, to get what I wanted as if it were for myself? I told him how much I should love to travel abroad like other young wives; I tried tears and entreaties with him; I told him that he ought to remember the condition I was in, and that he ought to be kind and indulgent to me; I even hinted that he might raise a loan. That nearly made him angry, Christine. He said I was thoughtless, and that it was his duty as my husband not to indulge me in my whims and caprices — as I believe he called them. Very well, I thought, you must be saved — and that was how I came to devise a way out of the difficulty —

Mrs. Linde: And did your husband never get to know from your father that the money had not come from him?

Nora: No, never. Papa died just at that time. I had meant to let him into the secret and beg him never to reveal it. But he was so ill then — alas, there never was any need to tell him.

OR

NORA: [meditatively, and with a half smile]. Yes—someday, perhaps, after many years, when I am no longer as nice-looking as I am now. Don't laugh at me! I mean, of course, when Torvald is no longer as devoted to me as he is now; when my dancing and dressing-up and reciting have palled on him; then it may be a good thing to have something in reserve—[Breaking off.] What nonsense! That time will never come. Now, what do you think of my

great secret, Christine? Do you still think I am of no use? I can tell you, too, that this affair has caused me a lot of worry. It has been by no means easy for me to meet my engagements punctually. I may tell you that there is something that is called, in business, quarterly interest, and another thing called payment in installments, and it is always so dreadfully difficult to manage them. I have had to save a little here and there, where I could, you understand. I have not been able to put aside much from my housekeeping money, for Torvald must have a good table. I couldn't let my children be shabbily dressed; I have felt obliged to use up all he gave me for them, the sweet little darlings!

MRS LINDE: So it has all had to come out of your own necessities of life, poor Nora?

NORA: Of course. Besides, I was the one responsible for it. Whenever Torvald has given me money for new dresses and such things, I have never spent more than half of it; I have always bought the simplest and cheapest things. Thank Heaven, any clothes look well on me, and so Torvald has never noticed it. But it was often very hard on me, Christine—because it is delightful to be really well dressed, isn't it?

MRS LINDE: Quite so.

NORA: Well, then I have found other ways of earning money. Last winter I was lucky enough to get a lot of copying to do; so I locked myself up and sat writing every evening until quite late at night. Many a time I was desperately tired; but all the same it was a tremendous pleasure to sit there working and earning money. It was like being a man.

(1×8=8)

6. Attempt any two questions (each to be answered in 500 words approximately) out of the given three.

- A) Explain the key themes explored by Henry Ibsen in his play *A Doll's House*.
- B) How do lies, secrecy, and revelations contribute to the development of the plot of the play *A Doll's House*?
- C) Give a Critical evaluation of Nora Helmer's character sketch in the play *A Doll's House*.

(2×10=20)

(For Additional Subject Candidates (2020-21 and 2021-22))

Exam Code: 103201

Paper Code: 8101

Bachelor of Arts - Semester I
 Course Title: English (Elective)
 Course Code: BARL – 1198 ✓

Time Allotted: 3 Hours

Max Marks: 100

Section-A**Attempt any four literary terms out of the given five. (Each to be answered in 150 words approximately):**

- Sonnet
- Conceit
- Imagery
- Conflict
- Alliteration

(4×5=20)**Section-B****Write phonetic transcription of any ten words out of the given fifteen words:**

- Comb
- Creche
- Dose
- Guage
- Ghost
- Castle
- Gross
- Mauve
- Sure
- Sample
- Wolf
- Wool
- Bottle
- Letter
- Tiffin

(10×2=20)**Section-C****Attempt any one Reference to Context in about 300 words approximately.**

Gather ye rose-buds while ye may,
 Old Time is still a-flying;
 And this same flower that smiles today
 Tomorrow will be dying.

The glorious lamp of heaven, the sun,
 The higher he's a-getting,
 The sooner will his race be run,
 And nearer he's to setting.

That age is best which is the first,
 When youth and blood are warmer;
 But being spent, the worse, and worst
 Times still succeed the former.

Then be not coy, but use your time,
 And while ye may, go marry;
 For having lost but once your prime,
 You may forever tarry.

OR

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host, of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
They stretched in never-ending line
Along the margin of a bay:
Ten thousand saw I at a glance,
Tossing their heads in sprightly dance.

The waves beside them danced; but they
Out-did the sparkling waves in glee:
A poet could not but be gay,
In such a jocund company:
I gazed—and gazed—but little thought
What wealth the show to me had brought:

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.

(1×10=10)

4. Attempt any two questions (each to be answered in 500 words approximately) out of the given three.

- A) Do you think 'My Mistress Eyes are nothing like the Sun' is a sarcastic way of appreciating the beauty of the mistress?
B) Critically analyse the poem, 'My Last Duchess'.
C) Trace the speaker's attitude towards the sun from the opening to the conclusion of the poem. What does this change reflect in the end?

(2×10=20)

Section-D

5. Attempt any one Reference to Context in about 300 words approximately.

A room furnished comfortably and tastefully, but not extravagantly.

At the back, a door to the right leads to the entrance-hall, another to the left leads to Helmer's study. Between the doors stands a piano. In the middle of the left-hand wall is a door, and beyond it a window. Near the window are a round table, armchairs and a small sofa. In the right-hand wall, at the farther end, another door; and on the same side, nearer the footlights, a stove, two easy chairs and a rocking-chair; between the stove and the door, a small table. Engravings on the wall; a cabinet with china and other small objects; a small book-case with well-bound books. The floors are carpeted, and a fire burns in the stove. It is winter.

A bell rings in the hall; shortly afterwards the door is heard to open.

Enter NORA, humming a tune and in high spirits. She is in out-door dress and carries a number of parcels; these she lays on the table to the right. She leaves the outer door open after her, and through it is seen a PORTER who is carrying a Christmas Tree and a basket, which he gives to the MAID who has opened the door.

Nora: Hide the Christmas Tree carefully, Helen. Be sure the children do not see it till this evening, when it is dressed. (To the PORTER, taking out her purse.) How much?

OR

Nora: There is no need you should. I never said I had borrowed the money. I may have got it some other way. (Lies back on the sofa.) Perhaps I got it from some other admirer.

When anyone is as attractive as I am - Mrs. Linde. You are a mad creature.

Nora: Now, you know you're full of curiosity, Christine.

Mrs. Linde: Listen to me, Nora dear. Haven't you been a little bit imprudent?

Nora (sits up straight): Is it imprudent to save your husband's life?

Mrs. Linde: It seems to me imprudent, without his knowledge, to --Nora. But it was absolutely necessary that he should not know! My goodness, can't you understand that? It was necessary he should have no idea what a dangerous condition he was in. It was to me that the doctors came and said that his life was in danger, and that the only thing to save him was to live in the south. Do you suppose I didn't try, first of all, to get what I wanted as if it were for myself? I told him how much I should love to travel abroad like other young wives; I tried tears and entreaties with him; I told him that he ought to remember the condition I was in, and that he ought to be kind and indulgent to me; I even hinted that he might raise a loan. That nearly made him angry, Christine. He said I was thoughtless, and that it was his duty as my husband not to indulge me in my whims and caprices — as I believe he called them. Very well, I thought, you must be saved — and that was how I came to devise a way out of the difficulty —

Mrs. Linde: And did your husband never get to know from your father that the money had not come from him?

Nora: No, never. Papa died just at that time. I had meant to let him into the secret and beg him never to reveal it. But he was so ill then — alas, there never was any need to tell him.

(1×10=10)

6. Attempt any two questions (each to be answered in 500 words approximately) out of the given three.

A) Discuss major themes in the play *A Doll's House*.

B) Lies, secrecy, and revelations are important factors that help move forward the plot of the play *A Doll's House*. Discuss.

C) Critically analyse the character sketch of Nora Helmer.

(2×10=20)

Exam Code: 121201
(30)

Paper Code: 1143

Programme: Bachelor of Arts
Semester-I

Course Title: Punjabi (Elective)

Course Code: BARL-1208

Time Allowed: 3 Hours

Max Marks: 70

ਨੋਟ: ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚੋਂ ਕੋਈ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 14 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-1

1. ਹੇਠ ਲਿਖੇ ਕਾਵਿ ਟੋਟਿਆਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ।

ੳ) ਭਲਾ ਰੱਬ ਆਸਰੇ ਨੂੰ ਜਗ ਦੀ ਮੁਥਾਜੀ ਕਾਹਦੀ,
ਸਿਰ ਉੱਤੇ ਚੁਕਦਾ ਨਹੀਂ ਘੋੜੇ ਅਸਵਾਰ ਗੰਢ।
ਪੀਚ ਪੀਚ ਪੱਲੇ ਬੰਨ, ਕੰਮ ਸਾਰੇ ਨੇਕੀਆਂ ਦੇ
ਸ਼ੂਮ ਜਿਵੇਂ ਰੱਖਦਾ ਹੈ ਪੈਸਿਆਂ ਨੂੰ ਮਾਰ ਗੰਢ।

ਅ) ਜਿੱਥੇ ਰੂਹ ਬਣਗੀ ਇੱਕ ਹਾਵਾ ਹੈ
ਜਿੱਥੇ ਜਿੰਦਗੀ ਇੱਕ ਪਛਤਾਵਾ ਹੈ
ਜਿੱਥੇ ਕੈਦ ਅਣਖ ਦਾ ਲਾਵਾ ਹੈ
ਜਿੱਥੇ ਅਕਲ ਮਸੋਸੀ ਮੁੜ ਪਈ ਖਾ ਰੋਜ਼ ਥਪੇੜੇ
ਤੂੰ ਮਘਦਾ ਰਈਂ ਵੇ.....

7+7=14

2. 'ਸਾਉਣ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-2

3. 'ਪਿੰਜਰ' ਨਾਵਲ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।
4. ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੇ ਜੀਵਨ ਤੇ ਰਚਨਾ 'ਤੇ ਨੋਟ ਲਿਖੋ। 14

ਸੈਕਸ਼ਨ-3

5. ਅਲੰਕਾਰ ਦੇ ਸਿਧਾਂਤ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।
6. ਰਸ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦਿਆਂ ਇਸਦੀਆਂ ਕਿਸਮਾਂ ਲਿਖੋ। 14

ਸੈਕਸ਼ਨ-4

7. ਭਾਸ਼ਾ ਵਿਚ ਅਰਥ ਵਿਗਿਆਨ ਦੇ ਸਿਧਾਂਤ ਬਾਰੇ ਦੱਸੋ।
8. ਸਫੋਟ ਤੇ ਅਪੋਹ ਸਿਧਾਂਤ 'ਤੇ ਨੋਟ ਲਿਖੋ। 14

(For Reappear Candidates (Old Syllabus 2023-24))

Exam Code: 121201

Paper Code: 9108

Bachelor of Arts (Semester-I)
 Course Title: Punjabi (Elective)
 Course Code- BARL-1208

Time Allowed: 3 Hours

Max Marks: 80

ਨੋਟ : ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-I

1. ਕਿਸੇ ਦੋ ਕਾਵਿ-ਬੰਦਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ-

- ੳ) ਅਜ ਨੂਰ ਦੇ ਤੜਕੇ ਜਦੋਂ ਲੈ ਰਹੀ ਸੀ 'ਸਵੇਰ' ਅੰਗੜਾਈਆਂ
 ਪਹੁ ਫੁਟਾਲੇ ਦੀ ਗੋਦ ਵਿਚ, ਇਕ ਖਿੜੇ ਗੁਲਾਬ ਦੀ ਕੂਲੀ ਗੋਦ ਵਿਚ
 ਤੁਸੀਂ ਖੇਲ ਰਹੇ ਸਾਓ ਮੇਰੇ ਸਾਈਆਂ, ਕਿੰਵ, ਹਾਂ ਕਿੰਵ ਆ ਗਏ ਸਾਓ
 ਓਸ ਨਿੱਕੀ ਗੋਦ ਵਿਚ ਮੇਰੇ ਐਡੇ ਵਡੇ ਵਿਸ਼ਾਲ ਸਾਈਆਂ!
- ਅ) ਕੁਝ ਰੁੱਖ ਮੈਨੂੰ, ਪੁੱਤ ਲਗਦੇ ਨੇ, ਕੁਝ ਰੁੱਖ ਲਗਦੇ ਮਾਵਾਂ
 ਕੁਝ ਰੁੱਖ ਨੂੰਹਾਂ ਧੀਆਂ ਲਗਦੇ, ਕੁਝ ਰੁੱਖ ਵਾਂਗ ਭਰਾਵਾਂ
 ਕੁਝ ਰੁੱਖ ਮੇਰੇ ਬਾਬੇ ਵਾਕਣ, ਪੱਤਰ ਟਾਵਾਂ ਟਾਵਾਂ
 ਕੁਝ ਰੁੱਖ ਮੇਰੀ ਦਾਦੀ ਵਰਗੀ ਚੂਰੀ ਪਾਵਣ ਕਾਵਾਂ।
- ੲ) ਨੀ ਅਜ ਕੋਈ ਆਇਆ ਸਾਡੇ ਵਿਹੜੇ, ਤਕਣ ਚੰਨ ਸੂਰਜ ਢੁਕ ਢੁਕ ਨੇੜੇ।
 ਲਸੇ ਨੀ ਉਹਦਾ ਮੱਥਾ ਤਾਰਿਆਂ ਵਾਂਗੂੰ, ਆਇਆ ਨੀ ਖੋਰੇ ਅੰਬਰ ਘੁੰਮ ਘੁੰਮ ਕਿਹੜੇ।
 ਆਇਆ ਨੀ ਲੱਖ ਨਾਲ ਬਹਾਰਾਂ ਲੈ ਕੇ, ਭਰੇ ਸੂ ਸਾਡੇ ਅੰਗ ਦੇ ਵਿਚ ਖੇੜੇ।
- ਸ) ਜੇ ਘਰਾਂ ਤੋਂ ਤੁਰ ਪਏ ਹੋ ਦੇਸਤੇ, ਮੁਸ਼ਿਕਲਾਂ ਤੇ ਔਕੜਾਂ ਤੋਂ ਡਰੇ
 ਜਦ ਰੁਕੇ ਤਾਂ ਨਕਸ਼ ਬਣਕੇ ਹੀ ਰੁਕੇ, ਜਦ ਤੁਰੇ ਤਾਂ ਰੋਸ਼ਨੀ ਵਾਂਗੂੰ ਤੁਰੇ।
 ਮੰਜ਼ਿਲਾਂ ਤੇ ਪਹੁੰਚਣਾ ਮੁਸ਼ਕਿਲ ਨਹੀਂ, ਰਸਤਿਆਂ ਦੇ ਵਾਂਗ ਨਾ ਜੇਕਰ ਫਟੇ।

2. 'ਉਹਦੇ ਨਾਂ' ਕਵਿਤਾ ਦੇ ਵਿਸ਼ੇ-ਵਸਤੂ 'ਤੇ ਵਿਸਤਰਿਤ ਨੋਟ ਲਿਖੋ।

ਜਾਂ

'ਕੰਬਦੀ ਕਲਾਈ' ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ -II

3. 'ਪਿੰਜਰ' ਨਾਵਲ ਵਿਚ ਕਿਹੜੀਆਂ-ਕਿਹੜੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਵਿਸ਼ੇ ਦੇ ਰੂਪ ਵਿਚ ਪੇਸ਼ ਕੀਤਾ ਗਿਆ ਹੈ
4. 'ਪਿੰਜਰ' ਨਾਵਲ ਦੀ ਪਾਤਰ ਉਸਾਰੀ ਸੰਬੰਧੀ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

ਸੈਕਸ਼ਨ -III

5. 'ਧੁਨੀ' ਸੰਪਰਦਾਇ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰਦੇ ਹੋਏ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਣਕਾਰੀ ਦਿਓ।
6. ਕੀ ਰਸ ਨੂੰ ਕਾਵਿ ਦੀ ਆਤਮਾ ਸਵੀਕਾਰ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ? ਉੱਤਰ ਦਲੀਲਾਂ ਸਹਿਤ ਦਿਓ।

ਸੈਕਸ਼ਨ - IV

7. ਬਹੁਅਰਥਕ ਤੇ ਸਮਾਨਅਰਥਕ ਸ਼ਬਦਾਂ ਤੋਂ ਕੀ ਭਾਵ ਹੈ? ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਉੱਤਰ ਦਿਓ।
8. ਸ਼ਬਦਾਂ ਦੇ ਅਰਥ ਸੰਬੰਧੀ ਸਫੇਟ ਸਿਧਾਂਤ ਦੀ ਗੱਲ ਕਰਦੇ ਹੋਏ ਵਿਰੋਧੀ ਸ਼ਬਦਾਂ ਦੇ ਵਰਤਾਰੇ ਸੰਬੰਧੀ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

Exam Code: 121201

Paper Code: 1112 - R

Programme: Bachelor of Arts (Semester – I)

Course Title: English Language Skills - I

Course Code: BARL-1212 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

SECTION A

Q1. Write sentences using the correct form of the verb in Past Simple Tense. Each sentence carries 2 marks.

- i. Mozart _____ (write) beautiful music.
- ii. I _____ (go) to the market yesterday.
- iii. She _____ (not, like) the film.
- iv. We _____ (leave) early.
- v. He _____ (eat) all the cake.
- vi. They _____ (build) a new house last year.
- vii. I _____ (walk) to college yesterday.

Q2. Write sentences using the modals – should or shouldn't. Each sentence carries 2 marks.

- i. You _____ drink plenty of water every day.
- ii. He _____ eat too much junk food.
- iii. We _____ arrive on time for the lecture.
- iv. You _____ ignore your teachers' advice.
- v. People _____ drive carefully at night.
- vi. They _____ speak politely with others.
- vii. You _____ spend all your money at once.

SECTION B

**Q3. Write a paragraph on the topic:
The Importance of Education in Today's World.**

Q4. Put the verb into the correct form: present or past, active or passive. Each sentence carries 2 marks.

- i. The homework _____ (complete) by all students before the class started.
- ii. The teacher always _____ (give) the instructions very clearly.
- iii. Many songs _____ (write) in English every year.
- iv. The building _____ (damage) in the storm last week.
- v. Somebody _____ (deliver) the package to my house this morning.
- vi. The new shopping mall _____ (open) last Saturday.
- vii. The doctor _____ (examine) the patient yesterday.

SECTION C

Q 5. (a) In *On Spendthrifts* by A. G. Gardiner, what does Gardiner mean by the word spendthrift? Explain using an example from the story.
(b) Describe the atmosphere of the Lecture Hall before the arrival of the Dean in *The Power of Women* by Richard Gordon?

Q 6. (a) In *A Dialogue on Democracy* by Albert Sydney Hornby, what are Anne and Jack talking about? How does Anne reject Thomas Jefferson's words?
(b) Do you think all the rights mentioned in the *Universal Declaration of Human Rights* are fully respected in the modern world? Give examples.

SECTION D

Q7. (a) In *Beauty and the Beast* by R. K. Narayan, what is the difference between appearance and reality?
(b) Why do the Rathores make only four rounds of the fire in their marriage in *With a Song On Their Lips* by Hugh & Colleen Gantzer.

Q8. (a) In *School for Sympathy* by E.V. Lucas, what is the chief objective of Ms. Beam's school? Which day appears to be the most difficult and why?
(b) As mentioned in the UN Report on AIDS, what is AIDS and when was the first AIDS case diagnosed?

Paper Code: 1112

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1212 ✓
Bachelor of Science (Medical)	121301	BSML-1212 ✓
Bachelor of Science (Non-Medical)		BSNL-1212 ✓
Bachelor of Science (Computer Science)		BCSL-1212 ✓
Bachelor of Science (Economics)		BECL-1212 ✓
Bachelor of Commerce	121101	BCRL-1212
Bachelor of Business Administration	121701	BBRL-1212

Semester-I

Course Title: English Language Skills - I
(350)

Time Allowed: 3 Hours**Max Marks: 70**

Note: The question paper will consist of four sections. The candidates will have to attempt five questions in all selecting one from each section and the fifth question from any of the four sections. Each question will carry 14 marks. (14x5=70)

SECTION A

1. Write sentences using the correct form of the verb in Present Continuous Tense. Each sentence carries 2 marks.

- a) I _____ (read) a book now.
- b) She _____ (cook) dinner right now.
- c) They _____ (not, play) football.
- d) He _____ (study) for his exam.
- e) The children _____ (watch) television.
- f) It _____ (rain) outside.
- g) We _____ (build) a house.

2. Write sentences using must or mustn't. Each sentence carries 2 marks.

- a) You _____ wear clean clothes for the interview.
- b) Students _____ talk during the exam.
- c) We _____ cross the road when the signal is red.
- d) You _____ listen carefully to the teacher.
- e) Visitors _____ touch the paintings in the gallery.
- f) Drivers _____ stop when the traffic light is red.
- g) You _____ be kind to everyone.

SECTION B

- 3. Write a paragraph on the topic: The Effects of Mobile Phones on Our Lives.
- 4. Put the verb into the correct form: present or past, active or passive. Each sentence carries 2 marks.
 - a) The boat hit a rock and _____ (sink) quickly.
 - b) Fortunately, everybody _____ (rescue).

- c) Water _____ (cover) most of the earth's surface.
- d) Sue _____ (resign) from her job because she didn't enjoy it any more.
- e) Maria had an accident. She _____ (fell) off her bike.
- f) While I was on holiday, my camera _____ (steal) from my hotel room.
- g) What would you do if you _____ (meet) a famous person?

SECTION C

- 5. (a) In *Symptoms* by Jerome K. Jerome, why does the main character think he is very sick?
(b) In *On Spendthrifts* by A. G. Gardiner, what is the popular image of a spendthrift? Why is control over spending more important than increasing earning?
- 6. (a) As mentioned in the *Universal Declaration of Human Rights*, when and where was the Universal Declaration of Human Rights written? Mention any two rights given in it.
(b) In *The Power of Women* by Richard Gordon, although Grimsdyke failed four times in the anatomy examination. What was it that kept him cheerful?

SECTION D

- 7. (a) Describe the main character of *My Financial Career* by Stephen Leacock.

- (b) In *Beauty and the Beast* by R. K. Narayan, how does the writer show that people are not always what they appear to be?
8. (a) What is the main idea of the story *School for Sympathy* by E.V. Lucas?
- (b) In *With a Song on Their Lips* by Hugh and Colleen Gantzer, how did the Bhopas help to keep old stories and songs alive?

Exam Code: 121201

(For Reappear Candidates Old Syllabus 2024-25))

Paper Code: 9102

Bachelor of Arts (Semster-I)
Course Title: English Language Skills – I
Course Code: BARL-1212

Time Allowed: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 14 marks.

Section-A

Q1. Write sentences using the correct form of the verb in Past Simple Tense. Each sentence carries 2 marks.

1. She _____ (call) me last night.
2. We _____ (enjoy) the concert a lot.
3. He _____ (not, finish) his homework.
4. They _____ (arrive) late to the meeting.
5. I _____ (see) a shooting star yesterday.
6. The train _____ (stop) suddenly.
7. She _____ (paint) a beautiful picture.

Q2. Write sentences using using the modals – should or shouldn't. Each sentence carries 2 marks.

1. Children _____ respect their elders.
2. You _____ sleep early to stay healthy.
3. We _____ waste food during meals.
4. He _____ apologise for his mistake.
5. Students _____ complete their homework on time.
6. People _____ help those in need.
7. You _____ trust strangers easily.

Section-B

Q3. Write a paragraph on the topic: My Favourite Season.

Q4. Put the verb into the correct form: present or past, active or passive. Each sentence carries 2 marks.

1. The letters _____ (deliver) by the postman last week.
2. She _____ (finish) her project yesterday.
3. The cake _____ (bake) by my mother last Sunday.
4. They _____ (receive) the invitation last month.
5. The windows _____ (clean) every week.
6. The children _____ (play) football in the park yesterday.
7. A new road _____ (build) near our school last year.

Section-C

Q 5. (a) Do you think all the rights mentioned in the *Universal Declaration of Human Rights* are fully respected in the modern world? Give examples.

(b) In *A Dialogue on Democracy* by Albert Sydney Hornby, what are Anne and Jack talking about? How does Anne reject Thomas Jefferson's words?

Q 6. (a) Describe the atmosphere of the Lecture Hall before the arrival of the Dean in *The Power of Women* by Richard Gordon?

(b) In *On Spendthrifts* by A. G. Gardiner, what does Gardiner mean by the word spendthrift? Explain using an example from the story.

Section-D

Q7. (a) As mentioned in the UN Report on *AIDS*, what is *AIDS* and when was the first *AIDS* case diagnosed?

(b) In *School for Sympathy* by E.V. Lucas, what is the chief objective of Ms. Beam's school? Which day appears to be the most difficult and why?

Q8. (a) Why do the Rathores make only four rounds of the fire in their marriage in *With a Song On Their Lips* by Hugh & Colleen Gantzer.

(b) In *Beauty and the Beast* by R. K. Narayan, what is the difference between appearance and reality?

Programme	Course Code	Exam Code
Bachelor of Arts <i>Sem-I</i>	BARL-1212	121201

English (Compulsory) ✓

Time Allowed : 3 hours

Max. Marks: 80

Section – A

Q1. Attempt ANY TEN. Each carries 2 mark.

(10 × 1 = 20)

1. Frame a sentence using **present continuous tense** with the verb *study*.
2. **Convert into simple present:**
She is eating breakfast every day at 8 am.
3. **Choose the correct option:**
Water _____ at 100°C.
a) is boiling b) boils
4. **Rewrite using past continuous:**
They _____ (play) cricket when it started raining.
5. **Fill in the blank:**
I have never _____ (be) to Delhi.
6. **Complete the sentence:**
She has been working here _____ 2021.
7. **Rewrite using have/has got:**
She owns two cars.
8. **Frame a sentence using *I'm going to***
(your plan for tonight)
9. **Fill in the blank using *Will be doing / Will have done***
By next month, I _____ (complete) my project.
10. **Use *Must / Can't***
The lights are off. They _____ (not be) at home.
11. **Rewrite using have to:**
It is necessary to wear a helmet while driving.
12. **Give advice using should:**
(advice for a stressed student)
13. **Fill in the blank using *Had better*:**
You _____ leave early, or you'll miss the bus.
14. Write a polite request using **Could you please...**
15. Fill in the blanks with **may / might**:
She _____ come today, but I'm not sure.

Section-B

Q2. Attempt ONE paragraph from the following:

(10x1=10)

- a) The Importance of Healthy Eating Habits
- OR**
- b) My Favourite Season

Q3. Translate the following paragraph into English:
(Attempt any ONE)

(10x1=10)

मेरे माता-पिता मेरी जिंदगी के सबसे बड़े प्रेरणा स्रोत हैं। उन्होंने हमेशा मुझे मेहनत, ईमानदारी और अनुशासन का महत्व सिखाया है। बचपन से ही उन्होंने मुझे सिखाया कि असफलता से डरना नहीं चाहिए, बल्कि उससे सीखकर आगे बढ़ना चाहिए। मेरे माता-पिता मुझे हर कदम पर सहयोग करते हैं और अच्छे निर्णय लेने में मदद करते हैं। जब भी मैं निराश होता हूँ, वे मुझे हिम्मत देते हैं और मेरा आत्मविश्वास बढ़ाते हैं। उनका कहना है कि सफलता का रास्ता कठिन होता है, लेकिन सही सोच और लगन से सब कुछ संभव है। इसलिए मैं मानता हूँ कि माता-पिता जीवन के सच्चे मार्गदर्शक होते हैं।

OR

ਮੇਰਾ ਪਿੰਡ ਕੁਦਰਤੀ ਸੁੰਦਰਤਾ ਨਾਲ ਭਰਪੂਰ ਹੈ। ਇਥੇ ਸਾਫ਼ ਹਵਾ, ਹਰੇ-ਭਰੇ ਖੇਤ ਅਤੇ ਮਿੱਠੇ ਲੋਕ ਹਨ। ਇੱਥੇ ਰਹਿਣ ਵਾਲੇ ਲੋਕ ਇੱਕ-ਦੂਜੇ ਦਾ ਸਾਥ ਦਿੰਦੇ ਹਨ ਅਤੇ ਖੁਸ਼ੀ-ਗ਼ਮੀ ਵਿਚ ਸਾਂਝੀਦਾਰ ਬਣਦੇ ਹਨ। ਮੇਰੇ ਪਿੰਡ ਵਿਚ ਹਰ ਸਾਲ ਮੇਲਾ ਲੱਗਦਾ ਹੈ ਜਿਸ ਵਿਚ ਲੋਕ ਨੱਚ-ਗਾਣਾ ਕਰਦੇ ਹਨ ਅਤੇ ਖੇਡਾਂ ਵਿਚ ਹਿੱਸਾ ਲੈਂਦੇ ਹਨ। ਪਿੰਡ ਦੀ ਜ਼ਿੰਦਗੀ ਸਾਦੀ ਹੁੰਦੀ ਹੈ ਪਰ ਦਿਲਾਂ ਵਿਚ ਪਿਆਰ ਹੁੰਦਾ ਹੈ। ਮੈਨੂੰ ਆਪਣਾ ਪਿੰਡ ਬਹੁਤ ਪਸੰਦ ਹੈ ਕਿਉਂਕਿ ਇੱਥੇ ਦਿਲ ਦੀ ਸੁਬੂਨ ਮਿਲਦੀ ਹੈ।

Section-C

Q4. Part I – Essay Type Question (Attempt ANY ONE)
(Word limit: 400 words)

(10x1=10)

1. Discuss the role of humour in “*The Luncheon*.”
2. What message does the story “*The Umbrella*” give about kindness and compassion?

Q5. Part II – Short Questions (Attempt ANY TWO)

(5+5=10)

1. How did the children react in the end of the story? (“*The Story Teller*”)
2. Describe the poverty of Gheesu and Madhav from *The Shroud*.
3. How does the horse look like. (*The Lament by Anton Pavlovich Chakhov*)

Section-D

Q6. Part I – Essay Type Question (Attempt ANY ONE)
(Word limit: 400 words)

(10x1=10)

- 1) Describe Jack and Anne’s argument in *A Dialogue on Democracy* by Albert Sydney Hornby.
- 2) How does Richard Gordon show the difference between appearance and reality in *The Power of Women*?

Q7. Part II – Short Questions (Attempt ANY TWO)

(5+5=10)

1. Describe the atmosphere of the lecture hall before the arrival of the dean. (*Power of Women*)
2. Why did the author think that his liver was out of order? (*Symptoms*)
3. Why is control over spending more important than increasing earning? (*On Spendthrifts*)

Exam Code : 108701

Paper Code : 9104

Bachelor of Arts (Semester-I)
 Course Title: English (Compulsory)
 Course Code: BARL-1212 ✓

Time Allowed : 3 Hours

Max. Marks : 40

Section – A

Q1. Attempt ANY TEN. Each carries 1 mark.

(10 × 1 = 10)

1. Combine using which:

I read a book. It explains English grammar.

2. Fill with who/that:

He is the teacher ____ teaches us Mathematics.

3. Use whose in the following sentence:

This is the girl _____ brother plays football.

4. Fill in the blank:

The woman ____ works at the bank is very kind.

5. Correct the form:

The movie was very _____. (boring / bored)

6. Fill with too / enough:

The water is not warm ____ to swim.

7. Rewrite correctly:

She is the most talented of all.

8. Correct the word order:

Always he arrives early.

9. Place adverb correctly:

They have started the meeting. (just)

10. Fill in the blank:

I haven't seen him _____. (yet / already)

11. Join using even though:

He was tired. He continued working.

12. Use in case in the sentence:

Carry an umbrella _____ it rains.

13. Fill in:

This bag is not as heavy ____ yours. (than/as)

14. Complete the sentence using as if:

She sings ____ she were a professional singer.

15. Make a sentence using by the time.

16. _____ I reached school, the class had already started.

Section-B

Q2. Attempt ONE paragraph (word limit: 150 words):

(5x1 =5)

a) Importance of Time Management

OR

b) My Experience During Lockdown

(Attempt any ONE)

हमारा विद्यालय शहर के बीचोंबीच स्थित है और आस-पास का वातावरण बहुत शांत है। यहाँ के शिक्षक बहुत मेहनती, दयालु और अनुभवी हैं। वे हमें केवल पढ़ाते ही नहीं, बल्कि जीवन के महत्वपूर्ण मूल्य भी सिखाते हैं। हर सोमवार को विद्यालय में प्रार्थना सभा होती है जिसमें सभी विद्यार्थी अनुशासन के साथ भाग लेते हैं। वहाँ हम प्रार्थना, विचार और राष्ट्रीय गीत प्रस्तुत करते हैं। विद्यालय की इमारत साफ-सुथरी और विशाल है। कक्षा-कक्ष, पुस्तकालय और खेल का मैदान बहुत अच्छी स्थिति में हैं। मेरा विद्यालय मेरी दूसरी दुनिया जैसा है, क्योंकि यहाँ मुझे सुरक्षा, ज्ञान और दोस्ती – तीनों मिलते हैं। मुझे वहाँ पढ़कर हमेशा खुशी मिलती है। मैं हर दिन कुछ नया सीखता हूँ और अपने सपनों के करीब महसूस करता हूँ। मेरा मानना है कि एक अच्छा विद्यालय ही जीवन को सही दिशा दे सकता है।

OR

ਅੱਜ ਦੇ ਸਮੇਂ ਵਿੱਚ ਸਿਹਤਮੰਦ ਰਹਿਣਾ ਬਹੁਤ ਜ਼ਰੂਰੀ ਹੈ ਕਿਉਂਕਿ ਸਿਹਤ ਤੋਂ ਵੱਡੀ ਦੌਲਤ ਹੋਰ ਕੋਈ ਨਹੀਂ ਹੁੰਦੀ। ਜੇ ਸਾਡਾ ਸਰੀਰ ਤੰਦਰੁਸਤ ਰਹੇ ਤਾਂ ਮਨ ਵੀ ਖੁਸ਼ ਰਹਿੰਦਾ ਹੈ ਅਤੇ ਅਸੀਂ ਹਰ ਦਿਨ ਨਵੀਂ ਤਾਕਤ ਨਾਲ ਕੰਮ ਕਰ ਸਕਦੇ ਹਾਂ। ਤਾਜ਼ਾ ਖਾਣਾ, ਨਿਯਮਿਤ ਕਸਰਤ ਅਤੇ ਪੂਰੀ ਨੀਂਦ ਸਿਹਤ ਦੇ ਤਿੰਨ ਸਭ ਤੋਂ ਮਹੱਤਵਪੂਰਨ ਹਿੱਸੇ ਹਨ। ਅੱਜਕੱਲ੍ਹ ਬਹੁਤ ਸਾਰੇ ਲੋਕ ਜੰਕ ਫੂਡ ਖਾਂਦੇ ਹਨ ਅਤੇ ਕਸਰਤ ਤੋਂ ਦੂਰ ਰਹਿੰਦੇ ਹਨ। ਇਸ ਕਾਰਨ ਮੋਟਾਪਾ, ਡਾਇਬਟੀਜ਼ ਅਤੇ ਦਿਲ ਦੀਆਂ ਬਿਮਾਰੀਆਂ ਵੱਧ ਰਹੀਆਂ ਹਨ। ਸਿਹਤ ਸਿਰਫ਼ ਦਵਾਈਆਂ ਨਾਲ ਨਹੀਂ ਬਣਦੀ, ਸਗੋਂ ਇੱਕ ਸਹੀ ਜੀਵਨ ਸ਼ੈਲੀ ਨਾਲ ਬਣਦੀ ਹੈ। ਸਾਨੂੰ ਸਵੇਰੇ ਜਲਦੀ ਉੱਠਣਾ ਚਾਹੀਦਾ ਹੈ, ਤਾਜ਼ੀ ਹਵਾ ਵਿੱਚ ਸੈਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ ਅਤੇ ਇੱਕ ਸੰਤੁਲਿਤ ਖੁਰਾਕ ਲੈਣੀ ਚਾਹੀਦੀ ਹੈ। ਜੇ ਅਸੀਂ ਆਪਣੀ ਸਿਹਤ ਦਾ ਧਿਆਨ ਰੱਖੀਏ ਤਾਂ ਅਸੀਂ ਲੰਮਾ ਅਤੇ ਖੁਸ਼ ਜੀਵਨ ਜੀ ਸਕਦੇ ਹਾਂ ਅਤੇ ਆਪਣੇ ਸੁਪਨੇ ਪੂਰੇ ਕਰ ਸਕਦੇ ਹਾਂ। ਸਿਹਤ ਹੀ ਮਨੁੱਖ ਦਾ ਅਸਲੀ ਧਨ ਹੁੰਦੀ ਹੈ।

Section-C

Part I – Essay Type Question (Attempt ANY ONE) (Word limit: 300 words)

(6 Marks)

1. Write a character sketch of the lady in the story “*The Luncheon*”.
2. Discuss the theme of the story “*The Umbrella*”.

Part II – Short Questions (Attempt ANY TWO)

(2 marks)

3. Comment on the final reaction by the children to the story of Bertha.
4. What were the living conditions of Gheesu and Madhav in *The Shroud*
5. Describe any important incident from Story No. 3.

Section-D

Part I – Essay Type Question (Attempt ANY ONE) (Word limit: 300 words)

(6 Marks)

1. Describe the atmosphere of the Lecture Hall before the arrival of the Dean in *The Power of Women* by Richard Gordon?
2. In *On Spendthrifts* by A. G. Gardiner, what does Gardiner mean by the word spendthrift? Explain using an example from the story.

Part II – Short Questions (Attempt ANY TWO)

(2 marks each)

1. Why is spendthrift likely to have too many friends?
2. What are Anne and Jack talking about?
3. Who is made fun of, in the essay? (*Symptoms* by Jerome K. Jerome)

(For Reappear Candidates Only (2023-24))

Paper Code: 9103

Programme	Course Code	Exam Code
Bachelor of Arts	BARL-1212 ✓	121201
Bachelor of Science	BSML-1212 ✓	121301
Bachelor of Business Administration	BBML-1212	121701

English (Compulsory)

Time Allowed : 3 hours

Max. Marks: 80

Section – A

Q1. Attempt ANY TEN. Each carries 2 mark.

(10 × 2 = 20)

- Rewrite using present continuous:**
She _____ (write) a letter right now.
- Correct the sentence:**
He don't plays football on Sundays.
- Fill in the blank with correct form:**
Look! The baby _____ (sleep) / She _____ (sleep) every afternoon.
- Change into past simple:**
I meet my friend at the park.
- Rewrite using have / has + past participle:**
They _____ (finish) their homework already.
- Complete the sentence:**
I _____ (wait) for you since 4 pm.
- Frame a question using How long:**
She has been working here.
- Fill in the blank:**
I _____ (play) badminton when I was a child.
- Use going to:**
It looks dark. It _____ rain.
- Rewrite using will:**
I think he _____ (win) the competition.
- Rewrite using can / could:**
_____ you help me, please?
- Fill in the blank:**
You _____ (not) park here. It's a no parking zone.
- Change the sentence using would:**
I like to travel when I have free time.
- Rewrite using I wish:**
I don't know how to drive.
- Change into passive voice:**
They built the bridge in 2010.

Section–B

Q2. Attempt ONE paragraph from the following:

(10x1=10)

a) Importance of Time Management

OR

b) My Experience During Lockdown

Q3. Translate the following paragraph into English:
(Attempt any ONE)

(10x1=10)

हमारा विद्यालय शहर के बीचोंबीच स्थित है और आस-पास का वातावरण बहुत शांत है। यहाँ के शिक्षक बहुत मेहनती, दयालु और अनुभवी हैं। वे हमें केवल पढ़ाते ही नहीं, बल्कि जीवन के महत्वपूर्ण मूल्य भी सिखाते हैं। हर सोमवार को विद्यालय में प्रार्थना सभा होती है जिसमें सभी विद्यार्थी अनुशासन के साथ भाग लेते हैं। वहाँ हम प्रार्थना, विचार और राष्ट्रीय गीत प्रस्तुत करते हैं। विद्यालय की इमारत साफ-सुथरी और विशाल है। कक्षा-कक्ष, पुस्तकालय और खेल का मैदान बहुत अच्छी स्थिति में हैं। मेरा विद्यालय मेरी दूसरी दुनिया जैसा है, क्योंकि यहाँ मुझे सुरक्षा, ज्ञान और दोस्ती – तीनों मिलते हैं। मुझे वहाँ पढ़कर हमेशा खुशी मिलती है। मैं हर दिन कुछ नया सीखता हूँ और अपने सपनों के करीब महसूस करता हूँ। मेरा मानना है कि एक अच्छा विद्यालय ही जीवन को सही दिशा दे सकता है।

OR

ਅੱਜ ਦੇ ਸਮੇਂ ਵਿੱਚ ਸਿਹਤਮੰਦ ਰਹਿਣਾ ਬਹੁਤ ਜ਼ਰੂਰੀ ਹੈ ਕਿਉਂਕਿ ਸਿਹਤ ਤੋਂ ਵੱਡੀ ਦੌਲਤ ਹੋਰ ਕੋਈ ਨਹੀਂ ਹੁੰਦੀ। ਜੇ ਸਾਡਾ ਸਰੀਰ ਤੰਦਰੁਸਤ ਰਹੇ ਤਾਂ ਮਨ ਵੀ ਖੁਸ਼ ਰਹਿੰਦਾ ਹੈ ਅਤੇ ਅਸੀਂ ਹਰ ਦਿਨ ਨਵੀਂ ਤਾਕਤ ਨਾਲ ਕੰਮ ਕਰ ਸਕਦੇ ਹਾਂ। ਤਾਜ਼ਾ ਖਾਣਾ, ਨਿਯਮਿਤ ਕਸਰਤ ਅਤੇ ਪੂਰੀ ਨੀਂਦ ਸਿਹਤ ਦੇ ਤਿੰਨ ਸਭ ਤੋਂ ਮਹੱਤਵਪੂਰਨ ਹਿੱਸੇ ਹਨ। ਅੱਜਕੱਲ੍ਹ ਬਹੁਤ ਸਾਰੇ ਲੋਕ ਜੰਕ ਫੂਡ ਖਾਂਦੇ ਹਨ ਅਤੇ ਕਸਰਤ ਤੋਂ ਦੂਰ ਰਹਿੰਦੇ ਹਨ। ਇਸ ਕਾਰਨ ਮੋਟਾਪਾ, ਡਾਇਬੀਟੀਜ਼ ਅਤੇ ਦਿਲ ਦੀਆਂ ਬਿਮਾਰੀਆਂ ਵੱਧ ਰਹੀਆਂ ਹਨ। ਸਿਹਤ ਸਿਰਫ਼ ਦਵਾਈਆਂ ਨਾਲ ਨਹੀਂ ਬਣਦੀ, ਸਗੋਂ ਇੱਕ ਸਹੀ ਜੀਵਨ ਸ਼ੈਲੀ ਨਾਲ ਬਣਦੀ ਹੈ। ਸਾਨੂੰ ਸਵੇਰੇ ਜਲਦੀ ਉੱਠਣਾ ਚਾਹੀਦਾ ਹੈ, ਤਾਜ਼ੀ ਹਵਾ ਵਿੱਚ ਸੈਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ ਅਤੇ ਇੱਕ ਸੰਤੁਲਿਤ ਖੁਰਾਕ ਲੈਣੀ ਚਾਹੀਦੀ ਹੈ। ਜੇ ਅਸੀਂ ਆਪਣੀ ਸਿਹਤ ਦਾ ਧਿਆਨ ਰੱਖੀਏ ਤਾਂ ਅਸੀਂ ਲੰਮਾ ਅਤੇ ਖੁਸ਼ ਜੀਵਨ ਜੀ ਸਕਦੇ ਹਾਂ ਅਤੇ ਆਪਣੇ ਸੁਪਨੇ ਪੂਰੇ ਕਰ ਸਕਦੇ ਹਾਂ। ਸਿਹਤ ਹੀ ਮਨੁੱਖ ਦਾ ਅਸਲੀ ਧਨ ਹੁੰਦੀ ਹੈ।

Section-C

Q4. Part I – Essay Type Question (Attempt ANY ONE)
(Word limit: 400 words)

(10x1=10)

1. Write a character sketch of the lady in the story "*The Luncheon*".
2. Discuss the theme of the story "*The Umbrella*".

Q5. Part II – Short Questions (Attempt ANY TWO)

(5+5=10)

1. Comment on the final reaction by the children to the story of Bertha.
2. Comment on the lady's remark--- "I never eat anything for luncheon" in the story *The Luncheon* by William Somerset Maugham.
3. Write character sketches of Madhav and Gheesu in *The Shroud* by Prem Chand

Section-D

Q6. Part I – Essay Type Question (Attempt ANY ONE)
(Word limit: 400 words)

(10x1=10)

1. Describe the atmosphere of the Lecture Hall before the arrival of the Dean in *The Power of Women* by Richard Gordon?
2. In *On Spendthrifts* by A. G. Gardiner, what does Gardiner mean by the word spendthrift? Explain using an example from the story.

Q7. Part II – Short Questions (Attempt ANY TWO)

(5+5=10)

1. Why is spendthrift likely to have too many friends?
2. What are Anne and Jack talking about?
3. Who is made fun of, in the essay? (*Symptoms* by Jerome K. Jerome)

Old Syllabus (2019 -20)

Exam Code: 121201

Paper Code: 9146

Programme: Bachelor of Arts (Semester – I)

Course Title: Hindi (Elective)

(मध्ययुगीन हिंदी काव्य, इतिहास एवं व्याकरण)

Course Code: BARL-1268

Time Allowed: 3 Hours

Max. Marks: 80

नोट: यह प्रश्न पत्र चार भागों में विभाजित है। भाग एक, दो, तीन एवं चार में पूछे गए दो-दो प्रश्नों में से एक प्रश्न करना अनिवार्य है। पाँचवाँ प्रश्न विधीयर्थ किसी भी भाग से कर सकता है। प्रत्येक प्रश्न 16 अंक का है।

भाग – एक

प्र.1 किन्ही दो पद्यांशों की सप्रसंग व्याख्या करें : (2 X 8 = 16)

- क. अंषड़ियां झाई पड़ी, पंथ निहारि निहारि ।
जीभड़ियां छाला पड़या, राम पुकारि पुकारि ।
- ख. पीछे लगा जाई था, लोक वेद के साथि ।
आगैं थे सतगुरु मिल्या, दीपक दिया हाथ ॥
- ग. अविगत-गति कछु कहत न आवै ॥
ज्यों गूंगे मीठे फल को रस अंतरगत ही भावै ॥
मन-बानी को अगम अगोचर, सो जाने जो पावै ॥
....सब विधि अगम बिचारहिं तातैं सूर सगुन-पद गावै ॥
- घ. मेरौ मन अनंत कहन सुख पावै ।
जैसे उड़ि जहाज को पंछी, फिरि जहाज पर आवै ।
कमल नैन को छाड़ि महातम और देव कौं ध्यावै ॥
परम गंग को छाड़ि को पियासो, दुरमति कूप खनावै ।
जिहि मधुकर अंबुज रस चाख्यौ, क्यों करील फल भावै ।
सूरदास प्रभु कामधेनु तजि, छेरि कौन दुहावै ॥

प्र.2. किन्ही दो पद्यांशों की सप्रसंग व्याख्या करें : (2 X 8 = 16)

- क. सतगुरु की महिमा अनंत, अनंत किया उपगार ।
लोचन अनंत उघाड़िया, अनंत दिखावनहार ॥
- ख. च्यन्ता तो हरि नाँव की, और ना चिंता दास ।
जे कुछ चितवैं राम बिन, सोई काल की पास ॥

- ग. हमारे निर्धन के धन राम ।
 चोर न लेत, घटत नहिं कबहुं, आवत गाढ़े काम ।
 जल नहिं बूड़त, अगिनि न दाहत, है ऐसौ हरिनाम ।
 बैकुंठनाम सकल सुख-दाता सूरदास सुख-धाम ॥
- घ. तुमहिं चरण अरविन्द भंवर मन, पान करत पायो रामय धन ॥
 संपत्ति-विपत्ति पटल माया घन, तामें मगन होय तेरो जन ॥
 कहा भयो जो तन भयो छिन-छिन, प्रेम जाप तौ डरै तेरो जन ॥
 प्रेम रज्जु से बंध्यो तेरो जन, कहि रैदास छूटियो कौन जन ॥

भाग – दो

- प्र.3. संत कवि कबीर का साहित्यिक परिचय दीजिए । (16)
- प्र.4. सूरदास की भक्तिभावना का परिचय दें । (16)

भाग – तीन

- प्र.5 क. निम्नलिखित शब्दों के विपरीतार्थक शब्द लिखो : (8)
- उन्नति, अधिक, अग्नि, इहलोक, अमृत आरम्भ, आधुनिक, उदय
- ख. निम्नलिखित अनेक शब्दों के लिए एक शब्द लिखें : (8)
- इस लोक से संबंध रखने वाला
 - अपना मतलब सिद्ध करने वाला
 - ईश्वर को मानने वाला
 - ऐसी घटना जिसकी सम्भावना ना हो
 - काम से जी चुराने वाला व्यक्ति
 - इतिहास की रचना करने वाला
 - एक ही पेट से उत्पन्न संतान
 - कविता करने वाला पुरुष
- प्र.6. रस की परिभाषा देते हुए रस के विविध प्रकारों का परिचय दें । (16)

भाग – चार

- प्र.7. आदिकाल की परिस्थितियों पर विचार करें । (16)
- प्र.8. कृष्णकाव्य धारा की विशेषताओं पर विस्तारपूर्वक प्रकाश डालें । (16)

Exam Code: 121201
(30)

Paper Code: 1144

Programme: Bachelor of Arts
Semester-I

**Course Title: Hindi (Elective) (Aadhunik
Kavita, Vyakaran tatha Anuvad)**

Course Code: BARL-1268

Time Allowed: 3 Hours

Max Marks: 70

नोट : प्रश्न-पत्र चार भागों में विभाजित है। प्रत्येक भाग में से 1-1 प्रश्न का उत्तर देना अनिवार्य है। पांचवां प्रश्न किसी भी भाग से कर सकते हैं। कुल 5 प्रश्नों के उत्तर दें। हर प्रश्न 14 अंक का है।

भाग-क

1. क सप्रसंग व्याख्या करें -

चाट रहे झूठी पत्तल वे कभी सड़क पर खड़े हुए
और झपट लेने को उनसे कुत्ते भी हैं अड़े हुए
ठहरो! अहों मेरे सीने में है अमृत मैं सींच दूंगा
अभिमन्यू जैसे हो सकोगे तुम
तुम्हारे दुख मैं अपने हृदय में खींच लूंगा।

7

ख सप्रसंग व्याख्या करें -

हम निहारते रूप, कांच के पीछे
हांफ रही है.... सोन मछली

- रूप — तृषा भी, रूप तृषा भी
और कांच के पीछे
है जिजीविषा 7
2. क सप्रसंग व्याख्या करें —
निज भाषा उन्नति आहे
सब उन्नति को मूल
पै निज भाषा ज्ञान कै
मिटत ना हिय के सूल 7
- ख सप्रसंग व्याख्या करें —
नदी यह घृणा की है
काली चट्टानों के सीने से निकली है
अंधी ज़हरीली गुफाओं से उबली है। 7

भाग—ख

3. भारतेन्दु हरिश्चन्द्र अथवा जयशंकर प्रसाद का साहित्यिक परिचय दें। 14
4. 'जागो फिर एक बार' कविता का सार एवं उद्देश्य लिखें। 14

भाग—ग

5. सर्वनाम की परिभाषा देते हुए विस्तारपूर्वक उसके भेदों की चर्चा करें। 14
6. क्रिया की परिभाषा देते हुए विस्तारपूर्वक उसके भेदों की चर्चा करें। 14

भाग—घ

7. निम्नलिखित शब्दों का हिन्दी में अनुवाद करें—

1. Assurance
2. Bonafide
3. Correspondence
4. Commission
5. Democracy
6. Estimate
7. Faculty
8. Homage
9. Increment
10. Joint
11. Majority
12. Original
13. Ratio
14. Witness

14

8. क. आपके मुहल्ले में चोरी की घटनाएं बहुत होने लगी हैं, नगर के पुलिस अधक्षक को मुहल्ले की सुरक्षा के लिए पत्र लिखें।

7

ख. स्वयं का परिचय देते हुए आत्म परिचय (बायोडाटा) तैयार करें।

7

Exam Code: 121201

Paper Code: 1125 – R

Programme: Bachelor of Arts (Semester – I)

Course Title: History (History of India upto C. 1000)

Course Code: BARL-1273

Time Allowed: 3 Hours

Max Marks: 70

Note:

- Attempt three questions from unit I, II, III, selecting atleast one question from each unit (I, II, III). Each question carries 14 marks. Answer each question in about 1000 words.
- Unit – IV is compulsory.
 - Q. 7: Attempt any seven objective type questions out of ten. Each question carries 2 marks. Answer each question in 20-25 words.
 - Q. 8: Map question is also compulsory. Mark any 7 places out of 10 on map of India and give its explanation. Seven marks for marking and seven marks are for explanation.

Unit - I

1. Write the main literary Sources of Ancient Indian History and their importance.
2. Discuss critically polity, social and economic life of the Rigvedic Aryans.

Unit - II

3. Write an account of the career and teaching of Lord Mahavira Swami, founder of Jainism.
4. Describe the Mauryan Administration.

Unit - III

5. Discuss Kanishka's contribution to Buddhism.
6. Discuss the character and achievements of Harshavardhana.

Unit - IV

7.
 - i. Literal meaning of Varna.
 - ii. Position of Women in Vedic Society.
 - iii. What is Sangam Literature?

- iv. What do Seals tell us about the Indus Valley people?
 - v. Name two archaeological sources.
 - vi. Who was Kautilya?
 - vii. Statue of Dancing Girl.
 - viii. Gods of later Vedic Aryans.
 - ix. Discovery of Indus Valley Civilization.
 - x. Puranas.
- 8.
- | | |
|---------------|-------------------|
| i. Gandhara | ii. Lothal |
| iii. Kannanji | iv. Prayag |
| v. Thanesar | vi. Rajgrah |
| vii. Magadha | viii. Mohenjodaro |
| ix. Bodh Gaya | x. Patliputra |

(Punjabi Version)

ਨੋਟ:

- ਇਕਾਈ I, II, III ਵਿੱਚੋਂ ਤਿੰਨ ਸਵਾਲ ਕਰੋ, ਹਰੇਕ ਇਕਾਈ (I, II, III) ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਸਵਾਲ ਚੁਣੋ। ਹਰੇਕ ਸਵਾਲ ਦੇ 14 ਅੰਕ ਹਨ। ਹਰੇਕ ਸਵਾਲ ਦਾ ਜਵਾਬ ਲਗਭਗ 1000 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਓ।
- ਇਕਾਈ - IV ਲਾਜ਼ਮੀ ਹੈ।
 - ਸਵਾਲ 7: ਦਸ ਵਿੱਚੋਂ ਕੋਈ ਵੀ ਸੱਤ ਸਵਾਲ ਕਰੋ। ਹਰੇਕ ਸਵਾਲ ਦੇ 2 ਅੰਕ ਹਨ। ਹਰੇਕ ਸਵਾਲ ਦਾ ਜਵਾਬ 20-25 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਓ।
 - ਸਵਾਲ 8: ਨਕਸ਼ੇ ਦਾ ਸਵਾਲ ਵੀ ਲਾਜ਼ਮੀ ਹੈ। ਭਾਰਤ ਦੇ ਨਕਸ਼ੇ 'ਤੇ 10 ਵਿੱਚੋਂ ਕਿਸੇ ਵੀ 7 ਸਥਾਨ 'ਤੇ ਨਿਸ਼ਾਨ ਲਗਾਓ ਅਤੇ ਇਸਦੀ ਵਿਆਖਿਆ ਦਿਓ। ਨਿਸ਼ਾਨ ਲਗਾਉਣ ਦੇ ਸੱਤ ਅੰਕ ਅਤੇ ਵਿਆਖਿਆ ਲਈ ਸੱਤ ਅੰਕ ਹਨ।

ਇਕਾਈ - I

1. ਪ੍ਰਾਚੀਨ ਭਾਰਤੀ ਇਤਿਹਾਸ ਦੇ ਮੁੱਖ ਸਾਹਿਤਕ ਸਰੋਤ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਮਹੱਤਤਾ ਲਿਖੋ।
2. ਰਿਗਵੇਦਿਕ ਆਰੀਅਨਾਂ ਦੇ ਰਾਜਨੀਤੀ, ਸਮਾਜਿਕ ਅਤੇ ਆਰਥਿਕ ਜੀਵਨ ਦੀ ਆਲੋਚਨਾਤਮਕ ਚਰਚਾ ਕਰੋ।

ਇਕਾਈ - II

3. ਜੈਨ ਧਰਮ ਦੇ ਸੰਸਥਾਪਕ ਭਗਵਾਨ ਮਹਾਂਵੀਰ ਸਵਾਮੀ ਦੇ ਕਰੀਅਰ ਅਤੇ ਸਿੱਖਿਆ ਦਾ ਬਿਰਤਾਂਤ ਲਿਖੋ।
4. ਮੌਰੀਆ ਪ੍ਰਸ਼ਾਸਨ ਦਾ ਵਰਣਨ ਕਰੋ।

ਇਕਾਈ - III

5. ਬੁੱਧ ਧਰਮ ਵਿੱਚ ਕਨਿਸ਼ਕ ਦੇ ਯੋਗਦਾਨ ਦੀ ਚਰਚਾ ਕਰੋ।
6. ਹਰਸ਼ਵਰਧਨ ਦੇ ਚਰਿੱਤਰ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ ਦੀ ਚਰਚਾ ਕਰੋ।

ਇਕਾਈ - IV

7.

- i. ਵਰਣ ਦਾ ਸ਼ਾਬਦਿਕ ਅਰਥ।
- ii. ਵੈਦਿਕ ਸਮਾਜ ਵਿੱਚ ਔਰਤਾਂ ਦੀ ਸਥਿਤੀ।
- iii. ਸੰਗਮ ਸਾਹਿਤ ਕੀ ਹੈ?
- iv. ਮੋਹਰਾਂ ਸਾਨੂੰ ਸਿੰਧੂ ਘਾਟੀ ਦੇ ਲੋਕਾਂ ਬਾਰੇ ਕੀ ਦੱਸਦੀਆਂ ਹਨ?
- v. ਦੋ ਪੁਰਾਤੱਤਵ ਸਰੋਤਾਂ ਦੇ ਨਾਮ ਦੱਸੋ।
- vi. ਕੋਟਿਲਯ ਕੌਣ ਸੀ?
- vii. ਨੱਚਦੀ ਕੁੜੀ ਦੀ ਮੂਰਤੀ।
- viii. ਬਾਅਦ ਦੇ ਵੈਦਿਕ ਆਰੀਅਨਾਂ ਦੇ ਦੇਵਤੇ।
- ix. ਸਿੰਧੂ ਘਾਟੀ ਸਭਿਅਤਾ ਦੀ ਖੋਜ।
- x. ਪੁਰਾਣਾਂ।

8.

- | | |
|-------------|-------------------|
| i. ਗੰਧਾਰ | ii. ਲੋਥਲ |
| iii. ਕੰਨੌਜ | iv. ਪ੍ਰਯਾਗ |
| v. ਥਾਨੇਸਰ | vi. ਰਾਜਗ੍ਰਹ |
| vii. ਮਗਧ | viii. ਮੋਹੇਨਜ਼ੋਦੜੋ |
| ix. ਬੋਧ ਗਯਾ | x. ਪਾਟਲੀਪੁੱਤਰ |

(Hindi Version)

ਨੋਟ:

- ਇਕਾਈ I, II, III ਦੇ ਤਿੰਨ-ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਕੀਜ਼ਿਏ, ਪ੍ਰਤੀਕ ਇਕਾਈ (I, II, III) ਦੇ ਕਮ ਸੇ ਕਮ ਏਕ ਪ੍ਰਸ਼ਨ ਚੁਨਿਏ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ 14 ਅੰਕਾਂ ਕਾ ਹੈ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ ਕਾ ਉਤਰ ਲਗਭਗ 1000 ਸ਼ਬਦਾਂ ਮੇਂ ਦੀਜ਼ਿਏ।
- ਇਕਾਈ IV ਅਨਿਵਾਰਯ ਹੈ।
 - ਪ੍ਰਸ਼ਨ 7: ਦਸ ਮੇਂ ਸੇ ਕਿਨ੍ਹੀਂ ਸਾਤ ਪ੍ਰਸ਼ਨਾਂ ਕੇ ਉਤਰ ਦੀਜ਼ਿਏ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ 2 ਅੰਕਾਂ ਕਾ ਹੈ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ ਕਾ ਉਤਰ 20-25 ਸ਼ਬਦਾਂ ਮੇਂ ਦੀਜ਼ਿਏ।
 - ਪ੍ਰਸ਼ਨ 8: ਮਾਨਚਿਤ੍ਰ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ ਭੀ ਅਨਿਵਾਰਯ ਹੈ। ਭਾਰਤ ਕੇ ਮਾਨਚਿਤ੍ਰ ਪਰ 10 ਮੇਂ ਸੇ ਕਿਨ੍ਹੀਂ 7 ਸਥਾਨਾਂ ਕੋ ਚਿਹ੍ਰਿਤ ਕੀਜ਼ਿਏ ਔਰ ਉਸਕਾ ਸਪੁਸ਼ਟੀਕਰਨ ਦੀਜ਼ਿਏ। ਸਾਤ ਅੰਕ ਅੰਕਨ ਕੇ ਔਰ ਸਾਤ ਅੰਕ ਸਪੁਸ਼ਟੀਕਰਨ ਕੇ ਲਿਏ ਹੈਂ।

इकाई - I

1. प्राचीन भारतीय इतिहास के प्रमुख साहित्यिक स्रोतों और उनके महत्व को लिखिए।
2. ऋग्वैदिक आर्यों की राजव्यवस्था, सामाजिक और आर्थिक जीवन का आलोचनात्मक विश्लेषण कीजिए।

इकाई - II

3. जैन धर्म के संस्थापक भगवान महावीर स्वामी के जीवन और शिक्षाओं का वर्णन कीजिए।
4. मौर्य प्रशासन का वर्णन कीजिए।

इकाई - III

5. बौद्ध धर्म में कनिष्क के योगदान पर चर्चा कीजिए।
6. हर्षवर्धन के चरित्र और उपलब्धियों पर चर्चा कीजिए।

इकाई - IV

7.
 - i. वर्ण का शाब्दिक अर्थ।
 - ii. वैदिक समाज में महिलाओं की स्थिति।
 - iii. संगम साहित्य क्या है?
 - iv. मुहरें हमें सिंधु घाटी के लोगों के बारे में क्या बताती हैं?
 - v. दो पुरातात्विक स्रोतों के नाम बताइए।
 - vi. कौटिल्य कौन थे?
 - vii. नर्तकी की प्रतिमा।
 - viii. उत्तरकालीन वैदिक आर्यों के देवता।
 - ix. सिंधु घाटी सभ्यता की खोज।
 - x. पुराण।
8.

i. गांधार	ii. लोथल
iii. कन्नड़	iv. प्रयाग
v. थानेसर	vi. राजगृह
vii. मगध	viii. मोहनजोदड़ो
ix. बोधगया	x. पाटलिपुत्र

Exam Code: 121201

Paper Code: 1125

Programme: Bachelor of Arts (Semester – I)

Course Title: History (History of India upto C. 1000)

Course Code: BARL-1273

Time Allowed: 3 Hours

Max Marks: 70

Note:

- Attempt three questions from unit I, II, III, selecting atleast one question from each unit (I, II, III). Each question carries 14 marks. Answer each question in about 1000 words.
- Unit – IV is compulsory.
 - Q. 7: Attempt any seven objective type questions out of ten. Each question carries 2 marks. Answer each question in 20-25 words.
 - Q. 8: Map question is also compulsory. Mark any 7 places out of 10 on map of India and give its explanation. Seven marks for marking and seven marks are for explanation.

Unit - I

1. Write a detailed note on the Archaeological Sources of Ancient Indian History.
2. Who were Aryans? Discuss the various theories regarding the original home of Aryans.

Unit - II

3. What were the main factors responsible for the spread of Buddhism and its decline in India?
4. Give an account of the conquest of Kalinga by Ashoka. What were its effects?

Unit - III

5. Discuss the various causes of downfall of the Gupta Empire.
6. Discuss the early career and conquests of Harsha Vardhana.

Unit - IV

7.
 - i. Who was Fa-hien?
 - ii. What did Megasthenes write?
 - iii. What information do inscriptions give about Ancient India?
 - iv. Great Bath of Mohenjodaro.

- v. Occupations of Indus Valley people.
 - vi. Two main centres of Indus Valley Civilization?
 - vii. What does the word Arya means?
 - viii. Four Vedas.
 - ix. Name any one famous King of the Magadha Kingdom.
 - x. Taxila-Centre of learning.
- 8.
- | | |
|-----------------|---------------|
| i. Harappa | ii. Prayag |
| iii. Patliputra | iv. Bodh Gaya |
| v. Magadha | vi. Sarnath |
| vii. Nalanda | viii. Pava |
| ix. Kalibangan | x. Taxila |

(Punjabi Version)

ਨੋਟ:

- ਇਕਾਈ I, II, III ਵਿੱਚੋਂ ਤਿੰਨ ਸਵਾਲ ਕਰੋ, ਹਰੇਕ ਇਕਾਈ (I, II, III) ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਸਵਾਲ ਚੁਣੋ। ਹਰੇਕ ਸਵਾਲ ਦੇ 14 ਅੰਕ ਹਨ। ਹਰੇਕ ਸਵਾਲ ਦਾ ਜਵਾਬ ਲਗਭਗ 1000 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਓ।
- ਇਕਾਈ - IV ਲਾਜ਼ਮੀ ਹੈ।
 - ਸਵਾਲ 7: ਦਸ ਵਿੱਚੋਂ ਕੋਈ ਵੀ ਸੱਤ ਸਵਾਲ ਕਰੋ। ਹਰੇਕ ਸਵਾਲ ਦੇ 2 ਅੰਕ ਹਨ। ਹਰੇਕ ਸਵਾਲ ਦਾ ਜਵਾਬ 20-25 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦਿਓ।
 - ਸਵਾਲ 8: ਨਕਸ਼ੇ ਦਾ ਸਵਾਲ ਵੀ ਲਾਜ਼ਮੀ ਹੈ। ਭਾਰਤ ਦੇ ਨਕਸ਼ੇ 'ਤੇ 10 ਵਿੱਚੋਂ ਕਿਸੇ ਵੀ 7 ਸਥਾਨ 'ਤੇ ਨਿਸ਼ਾਨ ਲਗਾਓ ਅਤੇ ਇਸਦੀ ਵਿਆਖਿਆ ਦਿਓ। ਨਿਸ਼ਾਨ ਲਗਾਉਣ ਦੇ ਸੱਤ ਅੰਕ ਅਤੇ ਵਿਆਖਿਆ ਲਈ ਸੱਤ ਅੰਕ ਹਨ।

ਇਕਾਈ - I

1. ਪ੍ਰਾਚੀਨ ਭਾਰਤੀ ਇਤਿਹਾਸ ਦੇ ਪੁਰਾਤੱਤਵ ਸਰੋਤਾਂ 'ਤੇ ਇੱਕ ਵਿਸਤ੍ਰਿਤ ਨੋਟ ਲਿਖੋ।
2. ਆਰੀਅਨ ਕੌਣ ਸਨ? ਆਰੀਅਨਾਂ ਦੇ ਮੂਲ ਘਰ ਸੰਬੰਧੀ ਵੱਖ-ਵੱਖ ਸਿਧਾਂਤਾਂ ਦੀ ਚਰਚਾ ਕਰੋ।

ਇਕਾਈ - II

3. ਬੁੱਧ ਧਰਮ ਦੇ ਫੈਲਣ ਅਤੇ ਭਾਰਤ ਵਿੱਚ ਇਸਦੇ ਪਤਨ ਲਈ ਜ਼ਿੰਮੇਵਾਰ ਮੁੱਖ ਕਾਰਕ ਕੀ ਸਨ?
4. ਅਸ਼ੋਕ ਦੁਆਰਾ ਕਲਿੰਗਾ ਦੀ ਜਿੱਤ ਦਾ ਵੇਰਵਾ ਦਿਓ। ਇਸਦੇ ਪ੍ਰਭਾਵ ਕੀ ਸਨ?

ਇਕਾਈ - III

5. ਗੁਪਤ ਸਾਮਰਾਜ ਦੇ ਪਤਨ ਦੇ ਵੱਖ-ਵੱਖ ਕਾਰਨਾਂ 'ਤੇ ਚਰਚਾ ਕਰੋ।
6. ਹਰਸ਼ ਵਰਧਨ ਦੇ ਸ਼ੁਰੂਆਤੀ ਕੈਰੀਅਰ ਅਤੇ ਜਿੱਤਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

ਇਕਾਈ - IV

7.

- i. ਫਾ-ਹੀਨ ਕੌਣ ਸੀ?
- ii. ਮੇਗਾਸਟੇਨਜ਼ ਨੇ ਕੀ ਲਿਖਿਆ?
- iii. ਸ਼ਿਲਾਲੇਖ ਪ੍ਰਾਚੀਨ ਭਾਰਤ ਬਾਰੇ ਕੀ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹਨ?
- iv. ਮੋਹਨਜੋਦੜੋ ਦਾ ਮਹਾਨ ਇਸ਼ਨਾਨ।
- v. ਸਿੰਧੂ ਘਾਟੀ ਦੇ ਲੋਕਾਂ ਦੇ ਕਿੱਤੇ।
- vi. ਸਿੰਧੂ ਘਾਟੀ ਸਭਿਅਤਾ ਦੇ ਦੋ ਮੁੱਖ ਕੇਂਦਰ?
- vii. ਆਰੀਆ ਸ਼ਬਦ ਦਾ ਕੀ ਅਰਥ ਹੈ?
- viii. ਚਾਰ ਵੇਦ।
- ix. ਮਹਾਧ ਰਾਜ ਦੇ ਕਿਸੇ ਇੱਕ ਮਸ਼ਹੂਰ ਰਾਜੇ ਦਾ ਨਾਮ ਦੱਸੋ।
- x. ਟੈਕਸਲਾ-ਸਿੱਖਿਆ ਦਾ ਕੇਂਦਰ।

8.

- | | |
|----------------|-------------|
| i. ਹੜੱਪਾ | ii. ਪ੍ਰਯਾਗ |
| iii. ਪਾਟਲੀਪੁਤਰ | iv. ਬੋਧ ਗਯਾ |
| v. ਮਗਧ | vi. ਸਾਰਨਾਥ |
| vii. ਨਾਲੰਦਾ | viii. ਪਾਟਾ |
| ix. ਕਾਲੀਬਾਂਗਨ | x. ਟੈਕਸੀਲਾ |

(Hindi Version)ਨੋਟ:

- ਇਕਾਈ I, II, III ਦੇ ਤਿੰਨ-ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਕੀਜ਼ਿਏ, ਪ੍ਰਤੀਕ ਇਕਾਈ (I, II, III) ਦੇ ਕਮ ਸੇ ਕਮ ਏਕ ਪ੍ਰਸ਼ਨ ਚੁਨਿਏ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ 14 ਅੰਕਾਂ ਕਾ ਹੈ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ ਕਾ ਉਤਰ ਲਗਭਗ 1000 ਸ਼ਬਦਾਂ ਮੇਂ ਦੀਜ਼ਿਏ।
- ਇਕਾਈ IV ਅਨਿਵਾਰਯ ਹੈ।
 - ਪ੍ਰਸ਼ਨ 7: ਦਸ ਮੇਂ ਸੇ ਕਿਨ੍ਹੀਂ ਸਾਤ ਪ੍ਰਸ਼ਨਾਂ ਕੇ ਉਤਰ ਦੀਜ਼ਿਏ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ 2 ਅੰਕਾਂ ਕਾ ਹੈ। ਪ੍ਰਤੀਕ ਪ੍ਰਸ਼ਨ ਕਾ ਉਤਰ 20-25 ਸ਼ਬਦਾਂ ਮੇਂ ਦੀਜ਼ਿਏ।
 - ਪ੍ਰਸ਼ਨ 8: ਮਾਨਚਿਤ੍ਰ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ ਭੀ ਅਨਿਵਾਰਯ ਹੈ। ਭਾਰਤ ਕੇ ਮਾਨਚਿਤ੍ਰ ਪਰ 10 ਮੇਂ ਸੇ ਕਿਨ੍ਹੀਂ 7 ਸਥਾਨਾਂ ਕੋ ਚਿਹ੍ਨਿਤ ਕੀਜ਼ਿਏ ਔਰ ਉਸਕਾ ਸਪਸ਼ਟੀਕਰਨ ਦੀਜ਼ਿਏ। ਸਾਤ ਅੰਕ ਅੰਕਨ ਕੇ ਔਰ ਸਾਤ ਅੰਕ ਸਪਸ਼ਟੀਕਰਨ ਕੇ ਲਿਏ ਹੈਂ।

इकाई I

1. प्राचीन भारतीय इतिहास के पुरातात्विक स्रोतों पर एक विस्तृत टिप्पणी लिखिए।
2. आर्य कौन थे? आर्यों के मूल निवास स्थान के संबंध में विभिन्न सिद्धांतों पर चर्चा कीजिए।

इकाई II

3. भारत में बौद्ध धर्म के प्रसार और उसके पतन के लिए उत्तरदायी मुख्य कारक क्या थे?
4. अशोक द्वारा कलिंग विजय का विवरण दीजिए। इसके क्या प्रभाव थे?

इकाई - III

5. गुप्त साम्राज्य के पतन के विभिन्न कारणों की चर्चा करें।
6. हर्ष वर्धन के शुरुआती करियर और विजय पर चर्चा करें।

इकाई - IV

7.
 - i. फाह्यान कौन था?
 - ii. मेगस्टेन्स ने क्या लिखा?
 - iii. शिलालेख प्राचीन भारत के बारे में क्या जानकारी देते हैं?
 - iv. मोहनजोदड़ो का महान स्नानघर।
 - v. सिंधु घाटी के लोगों का व्यवसाय।
 - vi. सिंधु घाटी सभ्यता के दो प्रमुख केंद्र?
 - vii. आर्य शब्द का क्या अर्थ है?
 - viii. चार वेद।
 - ix. मगध साम्राज्य के किसी एक प्रसिद्ध राजा का नाम बताइये।
 - x. तक्षशिला-शिक्षा का केन्द्र।

8.

- | | |
|-----------------|-------------|
| i. हड़प्पा | ii. प्रयाग |
| iii. पाटलिपुत्र | iv. बोधगया |
| v. मगध | vi. सारनाथ |
| vii. नालन्दा | viii. पावा |
| ix. कालीबंगन | x. तक्षशिला |

Paper Code: 1117

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1333 ✓
Bachelor of Science (Non-Medical)	121301	BSNL-1333 ✓
Bachelor of Science (Economics)		BECL-1333 ✓
Bachelor of Science (Computer Science)		BCSL-1333 ✓

Semester-I**Course Title: Mathematics (Algebra)****(50)****Time Allowed: 3 Hours****Max Marks: 70**

Note :- Attempt five question in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks

Section-A

1. (a) Using elementary operations, find A^{-1} where

$$A = \begin{bmatrix} -1 & 1 & 2 \\ 0 & 2 & 1 \\ -1 & 3 & 4 \end{bmatrix}$$

- (b) Test for consistency

$$2x + 3y + z = 9, x + 2y + z = 6, 3x + y + 2z = 8$$

If consistent, solve for x, y, z by finding the inverse of the coefficient matrix.

2. (a) Determine whether the following matrices have same column space or not

$$A = \begin{bmatrix} 1 & 3 & 5 \\ 1 & 4 & 3 \\ 1 & 1 & 9 \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & 2 & 3 \\ -2 & -3 & -4 \\ 7 & 12 & 15 \end{bmatrix}$$

- (b) Find the value of k so that the vectors

$$\begin{bmatrix} 1 \\ -1 \\ 3 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ -2 \end{bmatrix} \text{ and } \begin{bmatrix} k \\ 0 \\ 1 \end{bmatrix} \text{ are linearly dependent.}$$

Section-B

3. (a) Define Unitary Matrix. Prove that the characteristic roots of a unitary matrix are of unit modulus.

- (b) Determine eigen values and associated eigen vectors

$$\text{for the matrix } A = \begin{bmatrix} 7 & 4 & -1 \\ 4 & 7 & -1 \\ -4 & -4 & 4 \end{bmatrix}.$$

4. (a) State Cayley Hamilton Theorem. Verify Cayley Hamilton Theorem for the matrix

$$A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$$

(b) Find minimal polynomial for the matrix

$$A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}. \text{ Find } A^{-1} \text{ using minimal polynomial.}$$

Section-C

5. (a) Reduce the following to the canonical form and find the rank and index:

$$4x^2 + y^2 - 8z^2 + 4xy + 8yz - 4zx.$$

- (b) Classify the following form as definite, semi-definite and indefinite :

$$2x^2 + 2y^2 + 3z^2 - 4yz - 4zx + 2xy.$$

6. (a) What do you understand by Congruence of Matrices and Quadratic forms. Prove that a non-singular symmetric matrix A is congruent to its inverse.

- (b) Reduce the given quadratic form to the sum of squares by linear transformation

$$2x^2 + 9y^2 + 6z^2 + 8xy + 8yz + 6zx$$

Section-D

7. (a) Solve the equation

$x^4 - 40x^3 + 130x^2 - 120x + 27 = 0$ whose roots are in G.P.

(b) Discuss the nature of roots of the equation $x^3 - 6x^2 + 9x - 2 = 0$ and locate them.

(c) Prove that the equation

$3x^7 + 2x^5 + 4x^3 + 11x - 12 = 0$ has no negative root. Determine the number of positive roots and hence number of complex roots.

8. (a) Solve $3x^3 + 10x^2 + 40x + 192 = 0$, given that it has three distinct roots of equal moduli.

(b) Use Descarte's method to solve

$$x^4 - 10x^3 + 35x^2 - 50x + 24 = 0$$

Exam Code: 121201

Paper Code: 1138

Programme: Bachelor of Arts (Semester - I)

Course Title: Philosophy (Elementary Philosophy)

Course Code: BARL-1377

Time Allowed: 3 Hours

Maximum Marks: 70

- Note:** Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

SECTION – A

1. Write the main areas covered under the scope of Philosophy. 14
2. What is the relation between Philosophy and Religion? 14

SECTION – B

3. In Epistemology, what is Concept and Sources of Valid Knowledge 14
4. What is Concept of Virtue and Good Will? 14

SECTION – C

5. How did Vivekananda promote the idea of Universal Brotherhood? 14
6. Explain M. K. Gandhi: Ahimsa and Satyagraha. 14

SECTION – D

7. What is Sanatan Dharma? Explain its values. 14
8. Explain culture and any four components of Culture. 14

**Exam Code: 121201
(60)**

Paper Code: 1134

**Programme: Bachelor of Arts
Semester-I**

**Course Title: Political Science (Political
Theory-I)**

Course Code: BARL-1406

Time Allowed: 3 Hours

Max Marks: 70

Note : Candidates are required to attempt five questions out of 8, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 14 Marks.

Section A

1. Write difference between Traditional and Modern view of Political Science?
2. Write About Relationship of Political Science with Psychology and History?

Section B

3. Critically Examine Social Contract Theory?
4. Write about Marxian Theory about Origin of state?

Section C

5. Discuss liberalist Views of the State?
6. Discuss about Marxian Views on state?

Section D

7. Write a Note on limited Theory Sovereignty?
8. Write about Monistic Theory of Sovereignty?

Hindi Version

Section A

1. राजनीति विज्ञान के पारंपरिक एवं आधुनिक दृष्टिकोण में अंतर लिखिए?
2. मनोविज्ञान और इतिहास के साथ राजनीति विज्ञान के संबंध के बारे में लिखें?

Section B

3. सामाजिक अनुबंध सिद्धांत का आलोचनात्मक परीक्षण करें?
4. राज्य की उत्पत्ति के बारे में मार्क्सवादी सिद्धांत के बारे में लिखें?

Section C

5. राज्य के उदारवादी विचारों पर चर्चा करें?
6. राज्य पर मार्क्सवादी विचारों के बारे में चर्चा करें?

Section D

7. सीमित सिद्धांत संप्रभुता पर एक नोट लिखें?
8. संप्रभुता के अद्वैतवादी सिद्धांत के बारे में लिखें?

Punjabi Version

Section A

1. ਰਾਜਨੀਤੀ ਵਿਗਿਆਨ ਦੀ ਰਵਾਇਤੀ ਅਤੇ ਆਧੁਨਿਕ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਵਿੱਚ ਅੰਤਰ ਲਿਖੋ?
2. ਰਾਜਨੀਤੀ ਵਿਗਿਆਨ ਦੇ ਮਨੋਵਿਗਿਆਨ ਅਤੇ ਇਤਿਹਾਸ ਨਾਲ ਸੰਬੰਧਾਂ ਬਾਰੇ ਲਿਖੋ?

Section B

3. ਸਮਾਜਿਕ ਇਕਰਾਰਨਾਮੇ ਦੇ ਸਿਧਾਂਤ ਦੀ ਗੰਭੀਰਤਾ ਨਾਲ ਜਾਂਚ ਕਰੋ?
4. ਰਾਜ ਦੀ ਉਤਪਤੀ ਬਾਰੇ ਮਾਰਕਸੀਅਨ ਸਿਧਾਂਤ ਬਾਰੇ ਲਿਖੋ?

Section C

5. ਰਾਜ ਦੇ ਉਦਾਰਵਾਦੀ ਵਿਚਾਰਾਂ ਦੀ ਚਰਚਾ ਕਰੋ?
6. ਰਾਜ ਬਾਰੇ ਮਾਰਕਸਵਾਦੀ ਵਿਚਾਰਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

Section D

7. ਲਿਮਟਿਡ ਥਿਊਰੀ (ਪ੍ਰਭੂਸੱਤਾ) ਬਾਰੇ ਲਿਖੋ ਨੋਟ?
8. ਪ੍ਰਭੂਸੱਤਾ ਦੇ ਮਨੋਸਥਿਤਿਕ ਸਿਧਾਂਤ ਬਾਰੇ ਲਿਖੋ?

Exam Code: 12/201

Paper Code: 1128

Programme: Bachelor of Arts (Semester – I)

Course Title: Public Administration (Administrative Theory)

Course Code: BARL-1414

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries 14 marks.

SECTION A

1. What do you understand by the term public administration? Explain its scope.
2. Write down difference between public administration and Private administration?

SECTION B

3. Define Organization. Write Advantages and disadvantages of Formal organization.
4. What is Centralization? Discuss its merits and demerits.

SECTION C

5. Write the meaning, types and functions of Chief Executive.
6. What are merits and demerits of administrative tribunals. Give some suggestions to remove its defects.

SECTION D

7. Discuss different types of communication. What are the hindrances in the way of effective communication.
8. Discuss legislative control over the administration.

(HINDI)

नोट: प्रत्येक खंड से कम से कम एक प्रश्न का चयन करते हुए 8 में से पांच प्रश्न करना आवश्यक है। पांचवां प्रश्न किसी भी खंड से हल किया जा सकता है। प्रत्येक प्रश्न 14 अंक का होगा।

खंड ए

1. लोक प्रशासन शब्द से आप क्या समझते हैं? इसका दायरा स्पष्ट कीजिए।
2. लोक प्रशासन और निजी प्रशासन में अंतर लिखिए?

खंड बी

3. संगठन को परिभाषित कीजिए। औपचारिक संगठन के लाभ एवं हानियाँ लिखिए।
4. केंद्रीकरण क्या है? इसके गुण-दोषों की विवेचना कीजिए।

खंड सी

5. मुख्य कार्यकारी के अर्थ, प्रकार और कार्य लिखिए।
6. प्रशासनिक अधिकरणों के गुण और दोष क्या हैं। इसके दोषों को दूर करने के लिए कुछ सुझाव दीजिए।

खंड डी

7. संचार के विभिन्न प्रकारों की चर्चा कीजिए। प्रभावी संचार के रास्ते में क्या बाधाएँ हैं।
8. प्रशासन पर विधायी नियंत्रण की चर्चा कीजिए।

Paper Code: 1102

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1421 ✓
Bachelor of Science (Medical)	121301	BSML-1421 ✓
Bachelor of Science (Non-Medical)		BSNL-1421 ✓
Bachelor of Science (Computer Science)		BCSL-1421 ✓
Bachelor of Science (Economics)		BECL-1421
Bachelor of Commerce	121101	BCRL-1421
Bachelor of Business Administration	121701	BBRL-1421

Semester-I
Course Title: Punjabi (Compulsory)
(300)

Time Allowed: 3 Hours

Max Marks: 70

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 14 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-1

1. 'ਪੁਰਾਣੇ ਪੰਜਾਬ ਨੂੰ ਅਵਾਜ਼ਾਂ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।
2. 'ਬਾਰਾਂ-ਮਾਹ' ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-2

3. 'ਏਸ਼ੀਆ ਦਾ ਚਾਨਣ ਭਗਵਾਨ ਬੁੱਧ' ਜੀਵਨੀ ਰਚਿਤ ਪ੍ਰੋ: ਹਰਨਾਮ ਸਿੰਘ ਸ਼ਾਨ ਵਿਚੋਂ ਭਗਵਾਨ ਬੁੱਧ ਦਾ ਕਿਹੋ ਜਿਹਾ ਬਿੰਬ ਉਭਰਦਾ ਹੈ
4. 'ਰਾਣੀ ਲਕਸ਼ਮੀ ਬਾਈ' ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-3

5. ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਵਿਚੋਂ ਕਿਸੇ ਤੇ 'ਪੈਰਾ' ਰਚਨਾ ਕਰੋ:
 1. ਫੈਸ਼ਨ
 2. ਵਾਤਾਵਰਣੀ ਪ੍ਰਦੂਸ਼ਣ
 3. ਸਮੇਂ ਦੀ ਕਦਰ
6. ਪੈਰਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਉ:

ਅੱਜ ਕਿਧਰੇ ਵੀ ਵੱਡੀ ਉਮਰ ਦੇ ਚਾਰ ਮਰਦ ਜਾਂ ਇਸਤਰੀਆਂ ਜੁੜ ਬੈਠਦੀਆਂ ਹਨ, ਇਹੋ ਗੱਲ ਕਰਦੇ ਹਨ ਕਿ ਬੱਸ ਉਹ ਪੁਰਾਣੇ ਸਮਿਆਂ ਵਾਲੀਆਂ ਗੱਲਾਂ ਕਿੱਥੇ ਰਹੀਆਂ। ਉਹ ਪਹਿਲੇ ਵੇਲਿਆਂ ਦਾ ਪਰਿਵਾਰਕ ਜੀਵਨ ਤਾਂ ਸੁਪਨਾ ਬਣ ਗਿਆ। ਲੋਕ ਆਪਣੇ ਆਲੇ-ਦੁਆਲੇ ਚੋਂ ਆਪਣੇ ਪਿੰਡ ਚੋਂ ਪੁਰਾਣੇ ਪਰਿਵਾਰਾਂ ਦੀਆਂ ਤੇ ਗੁਆਂਢੀਆਂ ਦੇ ਟੱਬਰਾਂ ਦੀਆਂ ਉਦਾਹਰਣਾਂ ਦਿੰਦੇ ਹਨ ਕਿਵੇਂ ਉਹ ਲੋਕ ਸਬਰ ਸੰਤੋਖ ਨਾਲ ਦੋ ਖਣਾਂ ਦੇ ਕਮਰੇ ਵਿੱਚ ਰਹਿੰਦੇ ਸਨ। ਹੁਣ ਵੇਖਣਾ ਹੈ ਕਿ ਬੀਤੇ ਸਮਿਆਂ ਦੇ ਪੰਜਾਬੀ ਪਰਿਵਾਰ ਅਤੇ ਵਰਤਮਾਨ ਸਮਿਆਂ ਦੇ ਪਰਿਵਾਰਾਂ ਵਿੱਚ ਕੀ ਅੰਤਰ ਆ ਗਿਆ ਹੈ। ਇਸ ਤੋਂ ਵੀ ਪਹਿਲਾਂ ਇਹ ਵਿਚਾਰਨਾ ਪਵੇਗਾ ਕਿ ਪਰਿਵਾਰ ਕੀ ਹੁੰਦਾ ਹੈ।

 1. ਅੱਜ ਵੱਡੀ ਉਮਰ ਦੇ ਮਰਦ ਜਾਂ ਔਰਤਾਂ ਕੀ ਗੱਲਾਂ ਕਰਦੇ ਹਨ ?
 2. ਸੁਪਨਾ ਕੀ ਬਣ ਗਿਆ ਹੈ ?
 3. ਪੁਰਾਣੇ ਬੰਦਿਆਂ ਦੀਆਂ ਕੀ ਉਦਾਹਰਣਾਂ ਦਿੰਦੇ ਹਨ ?

4. ਮੁੱਢਲੀ ਵਿਚਾਰਨ ਵਾਲੀ ਗੱਲ ਕਿਹੜੀ ਹੈ ?
5. ਲਕੀਰੇ ਸ਼ਬਦਾਂ ਦੇ ਅਰਥ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-4

7. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।
8. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ ਬਾਰੇ ਵਿਸਥਾਰ ਸਹਿਤ ਨੋਟ ਲਿਖੋ।

Exam Code: 121201

Paper Code: 1102 - R

PROGRAMME: BACHELOR OF ARTS SEMESTER - I

COURSE TITLE - PUNJABI (COMPULSORY)

COURSE CODE: BARL-1421

Time Allowed: 3 Hrs

Max. Marks: 70

ਨੋਟ- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 14 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ - I

1. 'ਰਾਧਾ ਸੰਦੇਸ਼' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।
2. ਨੰਦ ਲਾਲ ਨੂਰਪੁਰੀ ਦੀ ਕਵਿਤਾ 'ਮਜ਼ਦੂਰ' ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ - II

3. 'ਬਾਬਾ ਫ਼ਰੀਦ' ਦੀ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੋ।
4. 'ਇਬਰਾਹਿਮ ਲਿੰਕਨ' ਦੀ ਜੀਵਨੀ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।

ਸੈਕਸ਼ਨ - III

5. ਹੇਠ ਲਿਖਿਆਂ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ 'ਤੇ ਪੈਰਾ ਰਚਨਾ ਕਰੋ:

ਓ) ਇੰਟਰਨੈੱਟ ਦੇ ਲਾਭ ਤੇ ਹਾਨੀਆਂ

ਅ) ਵਾਤਾਵਰਨੀ ਪ੍ਰਦੂਸ਼ਣ

ੲ) ਪੁਸਤਕਾਂ ਦਾ ਮਹੱਤਵ

6. ਹੇਠ ਲਿਖੇ ਪੈਰ੍ਹੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਦਿੱਤੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਉ-

ਕਈ ਵਾਰ ਸ਼ਬਦ ਨੂੰ ਗਾਉਂਦੇ-ਗਾਉਂਦੇ ਭਾਈ ਸਮੁੰਦ ਸਿੰਘ ਵਿਚੋਂ ਹੀ ਰਾਗ ਨੂੰ ਬਦਲ ਦਿੰਦਾ ਪਰ ਸ਼ਬਦ ਦੀ ਨਿਰੰਤਰਤਾ ਭੰਗ ਨਹੀਂ ਸੀ ਹੋਣ ਦਿੰਦਾ। ਮਿਸਾਲ ਦੇ ਤੌਰ ਤੇ ਉਹ ਅੰਮ੍ਰਿਤ ਵੇਲੇ ਤਾਰਿਆਂ ਦੀ ਛਾਵੇਂ ਕਿਸੇ ਸ਼ਬਦ ਨੂੰ ਆਸਾ ਰਾਗਨੀ ਵਿਚ ਸ਼ੁਰੂ ਕਰਦਾ। ਸ਼ਬਦ ਗਾਉਂਦਿਆਂ ਤੇ ਮਸਤੀ ਵਿਚ ਝੂਮਦਿਆਂ ਜਦ ਉਸ ਨੂੰ ਪਤਾ ਲਗਦਾ ਕਿ ਆਕਾਸ਼ ਵਿਚ ਮੇਭੀਆਂ ਰੰਗ ਖੁਰ ਗਏ ਤੇ ਪਹੁ ਫੁਟ ਪਈ ਹੈ ਤੇ ਉਹ ਸਮੇਂ ਦੇ ਬਦਲਣ ਨਾਲ ਸਹਿਜ ਸੁਭਾਅ ਹੀ ਆਸਾ ਰਾਗਨੀ ਦੇ ਸੁਰਾਂ ਨੂੰ ਭੈਰਵ ਰਾਗ ਦੇ ਸੁਰਾਂ ਵਿਚ ਬਦਲ ਦਿੰਦਾ। ਸ਼ਬਦ ਨੂੰ ਉਸੇ ਤਾਲ ਵਿਚ ਗਾਉਂਦੇ ਹੋਏ ਇਕ ਰਾਗ ਨੂੰ ਦੂਜੇ ਰਾਗ ਵਿਚ ਪੰਘਰਾ ਦੇਣਾ ਸਮੁੰਦ ਸਿੰਘ ਦੀ ਰਾਗ ਵਿਦਿਆ ਦਾ ਕ੍ਰਿਸ਼ਮਾ ਸੀ। ਉਸਦੀ ਗਇਕੀ ਸਵੇਰ ਸਾਰ ਦੇ ਰੰਗਾਂ ਵਾਂਗ ਸੀ ਜੋ ਇਕ ਦੂਜੇ ਵਿਚ ਵਟ ਰਹੇ ਹੋਣ। ਉਹ ਵਕਤ ਬਦਲਣ ਨਾਲ ਭੈਰਵ ਤੋਂ ਭੈਰਵੀ ਵਿਚ ਆ ਜਾਂਦਾ ਤੇ ਫਿਰ ਆਸਾਵਰੀ ਵਿਚ ਜੋ ਸਵੇਰੇ ਅੱਠ ਵਜੇ ਦੀ ਰਾਗਣੀ ਹੈ। ਸ਼ਬਦ ਉਹੀ ਕਾਇਮ ਰਹਿੰਦਾ ਪਰ ਵੇਲੇ ਨਾਲ ਰਾਗ ਤੇ ਭਾਵ ਦੇ ਰੰਗ ਬਦਲਦੇ ਰਹਿੰਦੇ ਤੇ ਉਹ ਸ਼ਬਦ ਨੂੰ ਕਈ ਪੱਧਰਾਂ ਉੱਤੇ ਭਿੰਨ-ਭਿੰਨ ਤਰਜਾਂ ਵਿਚ ਸਮੇਂ ਕੇ ਪੇਸ਼ ਕਰਦਾ।

ਉਪਰੋਕਤ ਪੈਰ੍ਹੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਹੇਠਾਂ ਦਿੱਤੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਉ—

1. ਭਾਈ ਸਮੁੰਦ ਸਿੰਘ ਗਾਉਂਦੇ-ਗਾਉਂਦੇ ਰਾਗ ਕਿਵੇਂ ਬਦਲਦੇ ਸਨ ?
2. ਭਾਈ ਸਮੁੰਦ ਸਿੰਘ ਦੀ ਰਾਗ ਵਿੱਦਿਆ ਦਾ ਕ੍ਰਿਸ਼ਮਾ ਕੀ ਸੀ ?
3. ਭਾਈ ਸਮੁੰਦ ਸਿੰਘ ਸਮੇਂ ਦੇ ਬਦਲਣ ਨਾਲ ਰਾਗ ਕਿਵੇਂ ਬਦਲਦੇ ਸਨ ?
4. ਲਕੀਰੇ ਸ਼ਬਦਾਂ ਦੇ ਅਰਥ ਲਿਖੋ।
5. ਪੈਰ੍ਹੇ ਦਾ ਸਿਰਲੇਖ ਲਿਖੋ।

ਸੈਕਸ਼ਨ - IV

7. ਭਾਸ਼ਾ ਅਤੇ ਉਪਭਾਸ਼ਾ ਵਿੱਚ ਅੰਤਰ ਸਪੱਸ਼ਟ ਕਰੋ।
8. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ 'ਤੇ ਨੋਟ ਲਿਖੋ।

(For Reappear Candidates (Old Syllabus 2023-24))

Exam Code: 121201

Paper Code: 9105

Bachelor of Arts (Semester-I)
 Course Title: Punjabi (Compulsory)
 Course Code- BARL-1421

Time Allowed: 3 Hours

Max Marks: 80

ਨੋਟ : ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-I

1. 'ਰਾਧਾ ਸੰਦੇਸ਼' ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ?
2. 'ਮਜ਼ਦੂਰ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਸਪਸ਼ਟ ਕਰੋ?

ਸੈਕਸ਼ਨ -II

3. ਸ੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੀ ਜੀਵਨੀ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ?
4. 'ਰਾਣੀ ਲਕਸ਼ਮੀ ਬਾਈ ਝਾਂਸੀ' ਜੀਵਨੀ ਦੇ ਆਧਾਰ ਤੇ ਉਸਦਾ ਨਾਇਕ ਬਿੰਬ ਪੇਸ਼ ਕਰੋ?

ਸੈਕਸ਼ਨ-III

5. ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਉੱਪਰ ਪੈਰਾ ਰਚਨਾ ਕਰੋ।

(ੳ) ਬੇਰੁਜ਼ਗਾਰੀ

(ਅ) ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਦਾ ਬੇਲਬਾਲਾ

(ੲ) ਮਹਿੰਗਾਈ

6. ਬੋਲਣ ਵਿੱਚ ਸਰੀਰ ਦੀ ਸ਼ਕਤੀ ਖਰਚ ਹੁੰਦੀ ਹੈ ਤੇ ਇਸ ਸ਼ਕਤੀ ਨੂੰ ਜਿੰਨਾ ਬਚਾ ਕੇ ਰੱਖਿਆ ਜਾਏ, ਉੱਨਾ ਹੀ ਫਾਇਦਾ ਹੈ। ਮਹਾਤਮਾ ਗਾਂਧੀ ਜੀ ਹਫ਼ਤੇ ਵਿੱਚ ਇੱਕ ਦਿਨ ਮੋਨ-ਵਰਤ ਰੱਖਿਆ ਕਰਦੇ ਸਨ ਤੇ ਅਚਾਰੀਆ ਬਿਨੇਵਾ ਭਾਵੇਂ ਵੀ ਕਈ ਕਈ ਦਿਨ ਚੁੱਪ ਰਹਿੰਦੇ ਸਨ। ਘੱਟ ਬੋਲਣ ਵਾਲੇ ਮਨੁੱਖਾਂ ਨੂੰ ਲੋਕ ਬੜੇ ਪਿਆਨ ਨਾਲ ਸੁਣਦੇ ਹਨ ਤੇ ਉਨ੍ਹਾਂ ਦੇ ਬੋਲਾਂ ਦੀ ਕਦਰ ਕਰਦੇ ਹਨ। ਕਾਂ ਦੀ ਲਗਾਤਾਰ ਕਾਂ ਕਾਂ ਲੋਕਾਂ ਦਾ ਸਿਰ ਖਾਂਦੀ ਹੈ ਤੇ ਲੋਕ ਉਸਨੂੰ ਸੁਣਨਾ ਪਸੰਦ ਨਹੀਂ ਕਰਦੇ, ਜਦ ਕਿ ਕੋਇਲ ਦੀ ਕਦੇ ਕਦੇ ਕੀਤੀ ਕੂਹੂਕੂਹੂ ਲੋਕਾਂ ਨੂੰ ਸਰੀਲੀ ਤੇ ਪਿਆਰੀ ਲੱਗਦੀ ਹੈ। ਚੁੱਪ ਰਹਿਣ ਵਾਲਾ ਤੇ ਸਮੇਂ ਸਿਰ ਬੋਲਣ ਵਾਲਾ ਗਹਿਰ-ਗੰਭੀਰ ਸਿਆਣਾ ਸਮਝਿਆ ਜਾਂਦਾ ਹੈ।

ਉੱਪਰਲੇ ਪੈਰੇ ਨੂੰ ਪਿਆਨ ਨਾਲ ਪੜ੍ਹੋ ਅਤੇ ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ।

- 1) ਬੋਲਣ ਨਾਲ ਕਿਹੜੀ ਸ਼ਕਤੀ ਖਰਚ ਹੁੰਦੀ ਹੈ?
- 2) ਗਾਂਧੀ ਜੀ ਕਿਹੜਾ ਵਰਤ ਰੱਖਦੇ ਸਨ?
- 3) ਲੋਕ ਕਿਹੜੇ ਪੰਛੀ ਦੀ ਆਵਾਜ਼ ਨੂੰ ਪਸੰਦ ਨਹੀਂ ਕਰਦੇ?
- 4) ਚੁੱਪ ਰਹਿਣ ਵਾਲੇ ਨੂੰ ਕੀ ਸਮਝਿਆ ਜਾਂਦਾ ਹੈ?
- 5) ਪੈਰੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਲਿਖੋ?

ਸੈਕਸ਼ਨ- IV

- 7) ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਤੋਂ ਕੀ ਭਾਵ ਹੈ ਉਚਾਰਨ ਅੰਗਾਂ ਤੇ ਨੋਟ ਲਿਖੋ।
- 8) ਵਿਅੰਜਨ ਧੁਨੀਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।

Paper Code: 1108

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1431
Bachelor of Science (Non-Medical)	121301	BSNL-1431
Bachelor of Science (Medical)		BSML-1431
Bachelor of Science (Economics)		BECL-1431
Bachelor of Science (Computer Science)		BCSL-1431
Bachelor of Science (Medical Laboratory Technology)	509701	BMLL-1431
Bachelor of Commerce	121101	BCRL-1431
Bachelor of Business Administration	121701	BBRL-1431
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1431
Bachelor of Arts (Journalism and Mass Communication)	116401	BJML-1431
Bachelor of Science (Fashion Designing)	119601	BFDL-1431
Bachelor of Science (Home Science)	119701	BHSL-1431
Bachelor of Computer Applications	117901	BCAL-1431
Bachelor of Science (Information Technology)	118001	BITL-1431
Bachelor of Science (Bio-Technology)	120601	BBTL-1431

Semester - III**Course Title: Punjab History and Culture****Time Allowed: 3 Hours****Max Marks: 70**

Note: Attempt five questions in about 800 words, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

Section - A

- Q1. What are the main physical features of Punjab? Explain in detail.
 Q2. What are the literary sources that provide information about the ancient history of Punjab?

Section - B

- Q3. What were the main features of Social Structure of Harappan Civilization?
 Q4. What are the main theories about the Original home of Indo Aryans?

Section - C

- Q5. How was family life and the position of Women described in Early Vedic Society?
Q6. What were the major changes in Religious Beliefs and Rituals during the Later Vedic Period?

Section - D

- Q7. Explain in detail about the significance of Eight Fold Path in Buddhism.
Q8. What are the main teachings of Jainism given by Lord Mahavira?

(Hindi Version)

नोट: प्रत्येक खंड से कम से कम एक प्रश्न चुनते हुए, लगभग 800 शब्दों में पाँच प्रश्नों के उत्तर दीजिए। पाँचवाँ प्रश्न किसी भी खंड से दिया जा सकता है। प्रत्येक प्रश्न 14 अंकों का है।

खंड-क

- प्रश्न 1. पंजाब की मुख्य भौतिक विशेषताएँ क्या हैं? विस्तार से समझाइए।
प्रश्न 2. पंजाब के प्राचीन इतिहास के बारे में जानकारी प्रदान करने वाले साहित्यिक स्रोत कौन से हैं?

खंड-ख

- प्रश्न 3. हड़प्पा सभ्यता की सामाजिक संरचना की मुख्य विशेषताएँ क्या थीं?
प्रश्न 4. भारतीय आर्यों के मूल निवास के बारे में मुख्य सिद्धांत क्या हैं?

खंड-ग

- प्रश्न 5. प्रारंभिक वैदिक समाज में पारिवारिक जीवन और महिलाओं की स्थिति का वर्णन किस प्रकार किया गया था?
प्रश्न 6. उत्तर वैदिक काल में धार्मिक विश्वासों और रीति-रिवाजों में क्या प्रमुख परिवर्तन हुए?

खंड-घ

- प्रश्न 7. बौद्ध धर्म में अष्टांगिक मार्ग के महत्व के बारे में विस्तार से समझाइए।
प्रश्न 8. भगवान महावीर द्वारा दी गई जैन धर्म की मुख्य शिक्षाएँ क्या हैं?

Paper Code: 1122

Programme	Course Code	Exam Code
Bachelor of Arts	BARL-1453	121201
Bachelor of Science	BECL-1453	121301

Semester I**Course Title: Quantitative Techniques (Quantitative Techniques - I)****Time: 3 Hours****Theory: 70**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

Section – A

1. Explain the significance and limitations of statistics.
2. a) The following table shows monthly expenditure of two families. Represent the data by a suitable bar diagram on percentage basis

Items	Food	Clothing	Recreation	Education	Rent	Misc.
Family A	43	8	3	5	10	6
Family B	83	17	10	9	21	15

- b) Define tabulation and discuss its significance.

Section – B

3. (a) The median value of following data is 55.25 . Find the missing frequencies if total of the frequencies is 100.

Class:	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency:	5	6	9	?	22	18	?	9

- (b) The frequency distribution given below gives the cost of production of sugarcane in different holdings. Obtain the arithmetic mean

Cost of Production	2-6	6-10	10-14	14-18	18-22	22-26	26-30	30-34
No. of Holdings	4	9	6	8	5	9	6	3

4. (a) What is dispersion? Discuss various measures of dispersion.
(b) Calculate S.D and coefficient of variation.

Farm Size	Less than 4	4-8	8-12	12-16	16-20	20-24	24 or above
No. of farms	4	6	8	5	4	3	2

Section – C

5. (a) Find the Karl Pearson's coefficient of correlation from the following data:

X:	45	70	65	30	90	40	50	75	85	60
Y:	35	90	70	40	95	40	60	80	80	50

(b) Ten students obtained the following marks in statistics(X) and Accountancy (Y). Find the Spearman's Rank Correlation Coefficient.

Students	A	B	C	D	E	F	G	H	I	J
X	92	89	86	87	83	71	77	63	53	50
Y	86	83	77	91	68	52	85	82	57	57

6. Find the equation of regression lines of Y on X and X on Y from the following data and estimate X for Y=6 and Y for X= 9

X	4	3	5	2	1	8
Y	5	2	3	4	2	7

Section – D

7. Calculate Fisher's ideal index for the following data. Also show that the method satisfies both the time reversal and factor reversal test.

Commodity	2018-19		2022-23	
	Price	Value	Price	Value
A	5	60	6	60
B	6	48	7	105
C	4	68	5	100
D	7	105	8	96
E	8	72	9	135

8. (a) Discuss various components of time series.

(b) Fit a straight line trend to the following data and estimate value for 2006

Year	2000	2001	2002	2003	2004	2005
Sales(Rs. Crores)	28	32	29	35	40	50

Exam Code: 121201
(20)

Paper Code: 1137

Programme: Bachelor of Arts
Semester-I

Course Title: Sanskrit (Elective) (Kavya Evam Vyakarana)
Course Code: BARL-1466

Time Allowed: 3 Hours

Max Marks: 70

नोट : प्रश्न पत्र माध्यम हिन्दी है। प्रश्नों के उत्तर संस्कृत, हिंदी, पंजाबी, अंग्रेजी में से किसी भी भाषा में दिए जा सकते हैं।

इस प्रश्नपत्र में कुल चार सैक्शन हैं— ए, बी, सी, एवं डी। छात्र चारों सैक्शन से एक-एक प्रश्न करेंगे तथा किसी एक सैक्शन से दो प्रश्न करने अनिवार्य हैं। कुल पाँच प्रश्न करने अनिवार्य हैं। प्रत्येक प्रश्न 14 अंक का है।

Section-A

1. "पुर्णसार्धशतकम्" के चार पद्यों की व्याख्या कीजिए—

क. गुरुवाणी सदा श्राव्या श्रुत्वा मतः सुखायते।

गुरुवाग्रसमास्वाद्य सदयः को न जायते।।

ख. जायन्ते च म्रियन्ते च सर्वे जगति नश्वरे।

सम्पाद्य शुभकर्मणि स्थिरीभवति को नहि।।

ग. परोपकरापाणिर्यः पंचापप्रान्तपावनः।

पर्यावाणगोप्ताऽसीच्च प्रेमपाठपाठकः ॥

घ. जीवनचरितं तस्य ब्रुवे संस्कृतभाषया ।

शुभकर्माजितख्यातीन् विस्मरति न संस्कृतम् ॥ 14

2. क. "पूर्णसार्धशतकम्" के अनुसार भक्त पूर्णसिंह जी का जीवनवृत्त स्वशब्दों में लिखिए । 7

ख. "पूर्णसार्धशतकम्" का सार स्वशब्दों में लिखिए । 7

Section-B

3. "पूर्णसार्धशतकम्" के पद्यों की व्याख्या कीजिए—

क. अनाथपीडितत्राता सेवाकर्मविचक्षणः ।

अभवन् मानवश्रेष्ठः प्रान्ते पञ्चापनामके ॥

ख. पितृभ्यां विवमल्लेन च महताभकौरया ।

सरत्रेहं "रामजीदास" इति पुत्राभिधा कृता ॥

ग. शैशवसमये माता तं सेवार्थमुपादिशत् ।

पुत्रचरित्रनिर्माणे मातृशिक्षापि कारणम् ॥

घ. प्राप्तुं सफलीभूतः शिक्षामुच्चतमां न हि ।

परं पीडितसेवायां सम्प्राप्तं प्रथमं पदम् ॥ 14

4. क. "पूर्णसार्धशतकम्" के आधार पर एक से पैंसठ श्लोकों का सार स्वशब्दों में प्रस्तुत । 7

ख. भक्त पूर्णसिंह जी का जीवन-दर्शन स्वशब्दों में लिखिए।

7

Section-C

5. निम्नलिखित संख्याओं को संस्कृत में लिखिए:-

1. ६
2. २०
3. ३०
4. ४६
5. ५०
6. २६
7. २०

14

6. क. निम्नलिखित धातुओं के लट्, लृट् एवं लोट् लकार में रूप पूछे जाए:-

1. पठ्
2. नृत्

7

ख. निम्नलिखित पदों में सन्धि अथवा सन्धि विच्छेद कीजिए:-

1. विद्या + अर्थी
2. स्वागतम्
3. देव + ऋषिः
4. सूर्योदयः
5. कवि + ईशः
6. एकैकः
7. महौषधि

7

Section-D

7. निम्नलिखित अव्ययों का संस्कृत वाक्यों में प्रयोग कीजिए:-

1. कुत्र
2. तत्र
3. सदा
4. अधुना
5. यथा
6. श्वः
7. सर्वत्र

14

8. क. निम्नलिखित धातुओं के लङ्, एवं विधिलिङ्, लकारों में रूप लिखिए:-

1. रक्ष्
2. प्रच्छ्
3. कथ्
4. चिन्त्

7

ख. निम्नलिखित वर्णों के उच्चारण-स्थान लिखिए:-

1. अ
2. इ
3. ऋ
4. लृ
5. ऊ
6. व्
7. औ

7

Exam Code: 121201
(40)

Paper Code: 1131

Programme: Bachelor of Arts
Semester-I

Course Title: Sociology (Fundamentals of Sociology -I)

Course Code: BARL-1475 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions, selecting at least one question from each section carrying 14 marks each. The fifth question may be attempted from any section.

Section A

1. Define Sociology? Critically discuss the assumptions of Formal school of thought?
2. How is Sociology related to Psychology?

Section B

3. Define Society? Discuss characteristics of society?
4. Give the main differences between Society and Association?

Section C

5. Define Social groups? Discuss its characteristics?
6. What are the features and importance of Primary Groups?

Section D

7. Define Socialization. What are the stages of Socialization?
8. Describe Mead's theory of socialization?

Hindi Version

Section A

1. समाजशास्त्र को परिभाषित करें? औपचारिक विचारधारा की मान्यताओं की आलोचनात्मक चर्चा करें ?
2. समाजशास्त्र मनोविज्ञान से किस प्रकार संबंधित है ?

Section B

3. समाज को परिभाषित करें? समाज की विशेषताओं पर चर्चा करें?
4. समाज और संघ के बीच मुख्य अंतर बताएं ?

Section C

5. सामाजिक समूहों को परिभाषित करें ? इसकी विशेषताओं पर चर्चा करें ?
6. प्राथमिक समूहों की विशेषताएं एवं महत्व क्या हैं ?

Section D

7. समाजीकरण को परिभाषित करें। समाजीकरण के चरण क्या हैं?
8. मीड के समाजीकरण के सिद्धांत का वर्णन करें ?

Punjabi Version

Section A

1. ਸਮਾਜ ਸ਼ਾਸਤਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ? ਵਿਚਾਰਧਾਰਾ ਦੇ ਰਸਮੀ ਸਕੂਲ ਦੀਆਂ ਧਾਰਨਾਵਾਂ ਦੀ ਆਲੋਚਨਾਤਮਕ ਤੌਰ 'ਤੇ ਚਰਚਾ ਕਰੋ।
2. ਸਮਾਜ ਸ਼ਾਸਤਰ ਮਨੋਵਿਗਿਆਨ ਨਾਲ ਕਿਵੇਂ ਸੰਬੰਧਤ ਹੈ?

Section B

3. ਸਮਾਜ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?
4. ਸੋਸਾਇਟੀ ਅਤੇ ਐਸੋਸੀਏਸ਼ਨ ਵਿਚਕਾਰ ਮੁੱਖ ਅੰਤਰ ਦੱਸੋ?

Section C

5. ਸਮਾਜਿਕ ਸਮੂਹਾਂ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?
6. ਪ੍ਰਾਇਮਰੀ ਸਮੂਹਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਮਹੱਤਵ ਕੀ ਹਨ?

Section D

7. ਸਮਾਜੀਕਰਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ। ਸਮਾਜੀਕਰਨ ਦੇ ਪੜਾਅ ਕੀ ਹਨ?
8. ਮੀਡ ਦੇ ਸਮਾਜੀਕਰਨ ਦੇ ਸਿਧਾਂਤ ਦਾ ਵਰਣਨ ਕਰੋ? $5 \times 14 = 70$

Paper Code: 1119

Programme	Course Code	Exam Code
Bachelor of Arts	BARM-1124	121201
Bachelor of Science	BECM-1124	121301

Semester I

Course Title: Computer Applications (Vocational)
(Computer Fundamentals and PC Software)

Time Allowed: 3 Hours**Max. Marks: 40**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section – A

- Q1) What is computer? Explain various components of computer system in detail. (8)
- Q2) a) Explain the process of booting in detail. (4)
 b) Explain the working of different translators. (4)

Section – B

- Q3) Explain the working of following:-
 a) CRT monitor (4)
 b) Inkjet Printer (4)
- Q4) a) What is RAM? Explain and differentiate its types? (4)

b) What do you mean by icon? What are various icons visible on Windows desktop? (4)

Section – C

Q5) What is ribbon in Word processing software? Explain various options available under Home tab of ribbon. (8)

Q6) Explain following in context of word processing software:-

a) Watermark (4)

b) Border and Shading (4)

Section – D

Q7) a) What do you mean by slideshow? How can you build a custom slideshow? (5)

b) What is bullets and numbering? (3)

Q8) What is slide? In presentation software how can you insert a new slide? What is the shortcut key to duplicate a slide? How can you print all slides of a presentation? What are various options available while printing a presentation? (8)

(For Reappear Candidates Only 2023-24)

Exam Code: 116401

Paper Code: 9106

**Bachelor of Arts (Semester-I)
Computer Applications (Vocational)
(Computer Fundamentals and PC Software)**

Course Code: BARM-1124

Time Allowed: 3 Hours

Max. Marks: 50

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section-A

- Q1) What is computer? Explain various components of computer system in detail.
Q2) a) Explain the process of booting in detail.
b) Explain the working of different translators.

Section-B

- Q3) Explain the working of following:-
a) CRT monitor
b) Inkjet Printer
Q4) a) What is RAM? Explain and differentiate its types?
b) What do you mean by icon? What are various icons visible on Windows desktop?

Section-C

- Q5) What is ribbon in Word processing software? Explain various options available under Home tab of ribbon.
Q6) Explain following in context of word processing software:-
a) Watermark
b) Border and Shading

Section-D

- Q7) a) What do you mean by slideshow? How can you build a custom slideshow? (6)
b) What is bullets and numbering? (4)

- Q8) What is slide? In presentation software how can you insert a new slide? What is the shortcut key to duplicate a slide? How can you print all slides of a presentation? What are various options available while printing a presentation?

Paper Code: 1118

Programme	Course Code	Exam Code
Bachelor of Arts	BARM-1134 ✓	121201
Bachelor of Science (Computer Science)	BCSM-1134 ✓	121301
Bachelor of Science (Economics)	BECM-1134 ✓	

Semester I**Course Title: Computer Science****(Computer Fundamentals and PC Software)****Time Allowed: 3 Hours****Max. Marks: 40**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section – A

- Q1) What is computer? Explain various components of computer system in detail. (8)
- Q2) a) Explain the process of booting in detail. (4)
b) Explain the working of different translators. (4)

Section – B

- Q3) Explain the working of following:- (4+4)
a) CRT monitor b) Inkjet Printer

Q4) a) What is RAM? Explain and differentiate its types? (4)

b) What do you mean by icon? What are various icons visible on Windows desktop? (4)

Section – C

Q5) What is ribbon in Word processing software? Explain various options available under Home tab of ribbon. (8)

Q6) Explain following in context of word processing software:-

a) Watermark (4)

b) Border and Shading (4)

Section – D

Q7) a) What do you mean by slideshow? How can you build a custom slideshow? (5)

b) What is bullets and numbering? (3)

Q8) What is slide? In presentation software how can you insert a new slide? What is the shortcut key to duplicate a slide? How can you print all slides of a presentation? What are various options available while printing a presentation? (8)

**Exam Code: 121201
(30)**

Paper Code: 1141

**Programme: Bachelor of Arts
Semester-I**

Course Title: Cosmetology (Vocational)

Course Code: BARM-1147 ✓

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries 8 marks.

Section-A

1. How many courses available in Cosmetology? 8
2. Explain the Cosmetology Aims in your words. 8

Section -B

3. What is skin? Also explain the functions of skin? 8
4. Discuss about three types of skin and how to care wrinkled skin problem. 8

Section -C

5. How to care of hand and feet explain it thoroughly. 8

6. Define:-

- a) Care of mouth 4
- b) How to remove body hair 4

Section -D

- 7. What are the techniques of massage? 8
- 8. Explain the basic techniques of bleach and why we do bleach. 8

Exam Code: 121201

Paper Code: 1135

Programme: Bachelor of Arts (Semester-I)

Course Title: Indian Classical Dance (Kathak)

Course Code: BARM-1156 ✓

Time: 3 Hours

Max. Marks: 35

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 07 marks.

Section – A

1. Write in detail about Kathak Dance from Ancient to Mughal period.
2. Define: Tatkar, Tihai Paran.

Section – B

3. Write down Asmyuktahasta Mudras in detail.
4. Define 9 Rasas and their importance in Kathak Dance.

Section – C

5. Explain Folk Dances of Punjab in detail.
6. Description of Teen taal and Rupak Taal.

Section – D

7. Notation of following material in Teen Taal:- Tehai, Amad and Kaviti.
8. Notation of Nagma in Teen Taal.

Punjabi Version

ਨੋਟ: ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ, ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੋ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 07 ਅੰਕ ਹਨ।

ਭਾਗ - ਏ

1. ਪ੍ਰਾਚੀਨ ਤੋਂ ਮੁਗਲ ਕਾਲ ਤੱਕ ਕਥਕ ਨਾਚ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।
2. ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ: ਤਤਕਾਰ, ਤਿਹਾਈ ਪਰਨ।

ਭਾਗ - ਬੀ

3. ਅਸਮਯੁਕਤਹਸਤ ਮੁਦਰਾਵਾਂ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।
4. ਕਥਕ ਨਾਚ ਵਿੱਚ 9 ਰਸ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਮਹੱਤਤਾ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ।

ਭਾਗ - ਸੀ

5. ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਚਾਂ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਦੱਸੋ।
6. ਤੀਨ ਤਾਲ ਅਤੇ ਰੂਪਕ ਤਾਲ ਦਾ ਵਰਣਨ।

ਭਾਗ - ਡੀ

7. ਤੀਨ ਤਾਲ ਵਿੱਚ ਹੇਠ ਲਿਖੀ ਸਮੱਗਰੀ ਦੀ ਨੋਟੇਸ਼ਨ:- ਤਿਹਾਈ, ਅਮਦ ਅਤੇ ਕਵੀਤ।
8. ਤੀਨ ਤਾਲ ਵਿੱਚ ਨਗਮਾ ਦੀ ਨੋਟੇਸ਼ਨ।

Hindi Version

ਨੋਟ: ਪ੍ਰत्यੇਕ ਖੰਡ ਦੇ ਕਮ ਤੋਂ ਕਮ ਏਕ ਪ੍ਰਸ਼ਨ ਚੁਨੇ ਹੋਏ ਕੁਲ ਪਾँਚ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉਤਰ ਦੇਣੇ।
ਪਾँਚਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੀ ਭੀ ਖੰਡ ਦੇ ਦਿਆ ਜਾ ਸਕਤਾ ਹੈ। ਪ੍ਰत्यੇਕ ਪ੍ਰਸ਼ਨ 07 ਅੰਕਾਂ ਕਾ ਹੈ।

ਖੰਡ - ਏ

1. ਪ੍ਰਾਚੀਨ ਕਾਲ ਦੇ ਲੇਕਰ ਮੁਗਲ ਕਾਲ ਤਕ ਦੇ ਕਥਕ ਨ੍ਰਤਯ ਦੇ ਬਾਰੇ ਮੇਂ ਵਿਸਤਾਰ ਦੇ ਲਿਖਿਏ।
2. ਪਰਿਭਾਸ਼ਿਤ ਕੀਜਿਏ: ਤਕਾਰ, ਤਿਹਾਈ ਪਰਨ।

ਖੰਡ - ਬੀ

3. ਅਸਮਯੁਕਤਹਸਤ ਮੁਦ੍ਰਾਓਂ ਕਾ ਵਿਸਤਾਰ ਦੇ ਵਰਣਨ ਕੀਜਿਏ।
4. ਕਥਕ ਨ੍ਰਤਯ ਮੇਂ 9 ਰਸਾਂ ਔਰ ਉਨਕੇ ਮਹਤਵ ਕੋ ਪਰਿਭਾਸ਼ਿਤ ਕੀਜਿਏ।

ਖੰਡ - ਸੀ

5. ਪੰਜਾਬ ਦੇ ਲੋਕ ਨ੍ਰਤਯਾਂ ਕਾ ਵਿਸਤਾਰ ਦੇ ਵਰਣਨ ਕੀਜਿਏ।
6. ਤੀਨ ਤਾਲ ਔਰ ਰੂਪਕ ਤਾਲ ਕਾ ਵਰਣਨ।

ਖੰਡ - ਡੀ

7. ਨਿਮਲਿਖਿਤ ਸਾਮਗ੍ਰੀ ਕਾ ਤੀਨ ਤਾਲ ਮੇਂ ਅੰਕਨ:- ਤਿਹਾਈ, ਅਮਦ ਔਰ ਕਵਿਤ।
8. ਤੀਨ ਤਾਲ ਮੇਂ ਨਗਮਾ ਕਾ ਅੰਕਨ।

Exam Code: 121201
(40)

Paper Code: 1142

Programme: Bachelor of Arts
Semester-I

Course Title: English (Elective)

Course Code: BARM-1198

Time Allowed: 3 Hours

Max Marks: 50

Section A

- 1. Define any THREE literary terms out of the given Five to be answered in 100 words approx.**

Symbolism, Simile, Conceit, Irony, imagery.

3x3 =9

Section B

- 2. Attempt any NINE words for transcription out of the given TWELVE:**

Creche, cough, comb, Yak, off, of, clerk, gross, sample, wolf, sure, what.

9x1=9

Section C

- 3. Attempt any One of the given TWO references to the context in about 300 words:**

That age is best which is the first,
When youth and blood are warmer;
But being spent, the worse, and worst
Time still succeed the former.

OR

Two roads diverged in a yellow wood,
And sorry I could not travel both
And be one traveller, long I stood
And looked down one as far as I could
To where it bent in the undergrowth.

1x 6=6

4. Attempt any TWO of the given THREE questions in about 500 words:

- i. How does the structure of 'A Doll's House' affect the play?
- ii. How does Nora's character develop in the play?
- iii. Write a note on themes of marriage and society in the play.

2x5=10

Section D

5. Attempt any ONE of the following references to the context in about 300 words:

When I consider how my light is spent,
Ere half my days, in this dark world and wide,
And that one talent which is death to hide
Lodged with me useless, though my soul more bent...

OR

That's my last Duchess painted on the wall,
Looking as if she were alive. I call
That piece a wonder, now; Fra Pandolf's hands
Worked busily a day, and there she stands.

1x6=6

6. Attempt any TWO out of the given THREE questions in about 500 words:

- i. Write a detailed note on the plot of a Doll's House?
- ii. Discuss the importance and appropriateness of the title a Doll's House
- iii. How does Ibsen reveal character in A Doll's House? Is Nora a sympathetic character?

2x5=10

Exam Code: 121201

Paper Code: 1140

Programme: Bachelor of Arts (Semester – I)

Course Title: Fashion Designing and Garment
Construction (Vocational) (Fashion Designing–I)

Course Code: BARM-1237

Time Allowed: 3 Hours

Max Marks: 30

- Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 6 marks.

Section – A

1. Write short notes on the following:
 - (a) Trends
 - (b) Classic fashion
2. Describe Fad, Haute Couture and fashion in detail.

Section – B

3. Describe the fashion cycle.
4. Explain the factors affecting the fashion cycle.

Section – C

5. Explain the origin of fashion.
6. Explain the theories of fashion adaptation.

Section – D

7. Explain texture in detail.
8. Describe Line and Color as components of fashion.

Exam Code: 121201

Paper Code: 1132

Programme: Bachelor of Arts (Semester - I)

Course Title: Fine Arts (Drawing and Painting)

Course Code: BARM- 1245

Time Allowed: 3 Hours

Max Marks: 30

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 6 marks.

Section – A

1. Write down about pre-historic period.
प्रागैतिहासिक काल के बारे में लिखिए।
ਪੂਰਵ-ਇਤਿਹਾਸਕ ਸਮੇਂ ਬਾਰੇ ਲਿਖੋ।
2. What do you know about Six limbs of Indian Art?
भारतीय कला के छह अंगों के बारे में आप क्या जानते हैं?
ਤੁਸੀਂ ਭਾਰਤੀ ਕਲਾ ਦੇ ਛੇ ਅੰਗਾਂ ਬਾਰੇ ਕੀ ਜਾਣਦੇ ਹੋ?

Section – B

3. Explain Elements of Art.
कला के तत्वों की व्याख्या करें।
ਕਲਾ ਦੇ ਤੱਤਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
4. Write down about Principles of art.
कला के सिद्धांतों के बारे में लिखिए।
ਕਲਾ ਦੇ ਸਿਧਾਂਤਾਂ ਬਾਰੇ ਲਿਖੋ।

Section – C

5. Write down about Indus valley civilization.
सिन्धु घाटी सभ्यता के बारे में लिखिए।
ਸਿੰਧੂ ਘਾਟੀ ਦੀ ਸਭਿਅਤਾ ਬਾਰੇ ਲਿਖੋ।
6. Write down about sculptures of Indus valley civilization.
सिन्धु घाटी सभ्यता की मूर्तियों के बारे में लिखिए।
ਸਿੰਧੂ ਘਾਟੀ ਦੀ ਸਭਿਅਤਾ ਦੀਆਂ ਮੂਰਤੀਆਂ ਬਾਰੇ ਲਿਖੋ।

Section – D

7. Explain Ajanta paintings in detail.
अजंता चित्रकला के बारे में विस्तार से बताएं।
ਅਜੰਤਾ ਦੀਆਂ ਪੇਂਟਿੰਗਾਂ ਬਾਰੇ ਵਿਸਥਾਰ ਨਾਲ ਸਮਝਾਓ।
8. Write down about:- Bodhistva padmapani , Mother and Child and Dying Princess.
बोधिस्त्व पद्मपाणि, माँ और बच्चे और मरती हुई राजकुमारी।
ਬੋਧੀਸਤਵ ਪਦਮਪਾਣੀ, ਮਾਂ ਅਤੇ ਬੱਚਾ ਅਤੇ ਮਰਨ ਵਾਲੀ ਰਾਜਕੁਮਾਰੀ ਬਾਰੇ ਲਿਖੋ।

Exam Code: 121201

Paper Code: 1129

Programme: Bachelor of Arts (Semester-I)

Course Title: Home Science

(Family Resource Management and Hygiene)

Course Code: BARM-1284

Time: 3 Hours

Max. Marks: 50

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section – A

1. What are the advantages and disadvantages of owning a house?
2. Explain the points to be considered in selecting the furniture for household purpose.

Section – B

3. What are the Principles of Art? Explain them in detail.
4. Explain different types of colours with the help of colour wheel. Also explain contrasting and monologous colour scheme.

Section – C

5. Define infection. What are its sources? How can infection be controlled?

6. Name the diseases caused by ingestion. Discuss causes, symptoms and treatment of dysentery.

Section – D

7. Define Food Hygiene. Discuss hygiene during preparation and storage of food.
8. What are the pollutants that contaminate water? How can it be purified at home?

Punjabi Version

ਨੋਟ: ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ, ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੋ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 07 ਅੰਕ ਹਨ।

ਭਾਗ - ਏ

1. ਘਰ ਰੱਖਣ ਦੇ ਕੀ ਫਾਇਦੇ ਅਤੇ ਨੁਕਸਾਨ ਹਨ?
2. ਘਰੇਲੂ ਉਦੇਸ਼ ਲਈ ਫਰਨੀਚਰ ਦੀ ਚੋਣ ਕਰਨ ਵੇਲੇ ਵਿਚਾਰੇ ਜਾਣ ਵਾਲੇ ਨੁਕਤਿਆਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਭਾਗ - ਬੀ

3. ਕਲਾ ਦੇ ਸਿਧਾਂਤ ਕੀ ਹਨ? ਉਹਨਾਂ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਦੱਸੋ।

4. ਰੰਗ ਚੱਕਰ ਦੀ ਮਦਦ ਨਾਲ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਦੇ ਰੰਗਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। ਵਿਪਰੀਤ ਅਤੇ ਇੱਕ-ਪੱਖੀ ਰੰਗ ਯੋਜਨਾ ਦੀ ਵੀ ਵਿਆਖਿਆ ਕਰੋ।

ਭਾਗ - ਸੀ

5. ਲਾਗ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ। ਇਸਦੇ ਸਰੋਤ ਕੀ ਹਨ? ਲਾਗ ਨੂੰ ਕਿਵੇਂ ਕੰਟਰੋਲ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ?
6. ਗ੍ਰਹਿਣ ਕਰਨ ਨਾਲ ਹੋਣ ਵਾਲੀਆਂ ਬਿਮਾਰੀਆਂ ਦੇ ਨਾਮ ਦੱਸੋ। ਪੇਚਸ਼ ਦੇ ਕਾਰਨਾਂ, ਲੱਛਣਾਂ ਅਤੇ ਇਲਾਜ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

ਭਾਗ - ਡੀ

7. ਭੇਜਨ ਦੀ ਸਫਾਈ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ। ਭੇਜਨ ਦੀ ਤਿਆਰੀ ਅਤੇ ਸਟੋਰੇਜ ਦੌਰਾਨ ਸਫਾਈ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।
8. ਪਾਣੀ ਨੂੰ ਦੂਸ਼ਿਤ ਕਰਨ ਵਾਲੇ ਪ੍ਰਦੂਸ਼ਕ ਕੀ ਹਨ? ਇਸਨੂੰ ਘਰ ਵਿੱਚ ਕਿਵੇਂ ਸ਼ੁੱਧ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ?

Hindi Version

ਨੋਟ: ਪ੍ਰत्यੇਕ ਖੰਡ ਤੋਂ ਕਮ ਤੋਂ ਕਮ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਨੇ ਹੋਣ ਨਾਲ ਕੁਲ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉਤਰ ਦੇਣੇ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਖੰਡ ਤੋਂ ਦਿੱਤਾ ਜਾ ਸਕਦਾ ਹੈ।
ਪ੍ਰत्यੇਕ ਪ੍ਰਸ਼ਨ 07 ਅੰਕਾਂ ਦਾ ਹੈ।

ਖੰਡ - ਕ

1. ਘਰ ਦੇ ਮਾਲਿਕ ਹੋਣ ਦੇ ਕਯਾ ਫਾਇਦੇ ਅਤੇ ਨੁਕਸਾਨ ਹਨ?

2. घरेलू उपयोग के लिए फर्नीचर चुनते समय किन बातों का ध्यान रखना चाहिए, इसकी व्याख्या कीजिए।

खंड - ख

3. कला के सिद्धांत क्या हैं? इन्हें विस्तार से समझाइए।
4. रंग चक्र की सहायता से विभिन्न प्रकार के रंगों की व्याख्या कीजिए। विषम और एकरूपी रंग योजना की भी व्याख्या कीजिए।

खंड - ग

5. संक्रमण को परिभाषित कीजिए। इसके स्रोत क्या हैं? संक्रमण को कैसे नियंत्रित किया जा सकता है?
6. खाने से होने वाले रोगों के नाम लिखिए। पेचिश के कारणों, लक्षणों और उपचार पर चर्चा कीजिए।

खंड - घ

7. खाद्य स्वच्छता को परिभाषित कीजिए। भोजन तैयार करने और भंडारण के दौरान स्वच्छता पर चर्चा कीजिए।
8. जल को दूषित करने वाले प्रदूषक कौन से हैं? इसे घर पर कैसे शुद्ध किया जा सकता है?

Exam Code: 121201

Paper Code: 1127

Programme: Bachelor of Arts (Semester – I)

Course Title: Journalism and Mass Communication

(Vocational)

Course Code: BARM-1313

Time Allowed: 3 Hours

Marks: 50

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section-I

1. What is meant by Communication? Explain its Concept and important Functions.
2. Which are the various Types of Communication? Explain in detail with suitable examples.

Section-II

3. Discuss 7C's of Communication with their significance.
4. Write a detailed note on Barriers to Communication with special reference to Psychological Barriers.

Section-III

5. Write a detailed note Aristotle and Lasswell's Models of Communication.
6. Explain the elements of Communication Shown in Shannon and Weaver's Model of Communication.

Section-IV

7. Discuss Magic Bullet Theory
8. Explain Two Step Flow and Multi Step Flow in detail.

Exam Code: 121201

Paper Code: 1136

Programme: Bachelor of Arts (Semester - I)

Course Title: Music (Vocal)

Course Code: BARM-1366

Time Allowed: 3 Hours

Max. Marks: 35

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 07 marks.

Section – A

1. Explain Tanpura and Shayak Naad.
2. Write down the definition of following Musical terms:
 - i. Swar
 - ii. Naad

Section – B

3. Write down the life sketch of folk singer Yamla jatt.
4. Explain the wedding songs of Punjab related to Ghoriyan.

Section – C

5. Explain taal teental in ekgun and dugun layakaries.
6. Give the Notation of Rag Bhupali in detail.

Section – D

7. Write down the contribution of Guru Nanak Dev ji in Indian Music.
8. Give short notes on following Gurmat sangeet terms:
 - i. Mohalla
 - ii. Rababi

Hindi Version

नोट: प्रत्येक इकाई से एक प्रश्न चुनते हुए, पाँच प्रश्नों के उत्तर दीजिए। पाँचवाँ प्रश्न किसी भी इकाई से लिया जा सकता है। प्रत्येक प्रश्न 7 अंकों का होगा।

इकाई-1

1. तानपुरा और शायक नाद की व्याख्या कीजिए।
2. निम्नलिखित संगीत शब्दों की परिभाषा लिखिए:
 - i. स्वर
 - ii. नाद

इकाई-II

3. यमला जट्ट का जीवन परिचय लिखिए।
4. घोड़ियाँ से संबंधित पंजाब के विवाह गीतों की व्याख्या कीजिए।

इकाई-III

5. एकगुण और दुगुण लयकारियों में ताल-तीनताल की व्याख्या कीजिए।
6. राग भूपाली के स्वरों का विस्तार से वर्णन कीजिए।

इकाई-IV

7. भारतीय संगीत में गुरु नानक देव जी के योगदान का वर्णन कीजिए।
8. निम्नलिखित गुरुमत संगीत शब्दों पर संक्षिप्त टिप्पणियाँ लिखिए:
 - i. मोहल्ला
 - ii. रबाबी

Punjabi Version

ਨੋਟ: ਹਰੇਕ ਇਕਾਈ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ ਕੋਈ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ।
ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਇਕਾਈ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 07 ਅੰਕ ਹੋਣਗੇ।

ਇਕਾਈ - I

1. ਤਾਨਪੁਰਾ ਅਤੇ ਸ਼ਾਇਕ ਨਾਦ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
2. ਹੇਠ ਲਿਖੇ ਸੰਗੀਤਕ ਸ਼ਬਦਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖੋ:
 - i. ਸਵਰ
 - ii. ਨਾਦ

ਇਕਾਈ - II

3. ਲੋਕ ਗਾਇਕ ਯਮਲਾ ਜੱਟ ਦਾ ਜੀਵਨ ਚਿੱਤਰ ਲਿਖੋ।
4. ਘੋੜੀਆਂ ਨਾਲ ਸਬੰਧਤ ਪੰਜਾਬ ਦੇ ਵਿਆਹ ਦੇ ਗੀਤਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਇਕਾਈ - III

5. ਏਕਗੁਣ ਅਤੇ ਦੁਗੁਣ ਲਯਕਾਰੀਆਂ 'ਚ ਤਾਲ ਤਿੰਨਤਾਲ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
6. ਰਾਗ ਭੂਪਾਲੀ ਦੀ ਵਿਸਤਾਰ ਨਾਲ ਨੋਟੇਸ਼ਨ ਦਿਓ।

ਇਕਾਈ - IV

7. ਭਾਰਤੀ ਸੰਗੀਤ 'ਚ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੇ ਯੋਗਦਾਨ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
8. ਹੇਠ ਲਿਖੇ ਗੁਰਮਤ ਸੰਗੀਤ ਸ਼ਬਦਾਂ 'ਤੇ ਛੋਟੇ ਨੋਟ ਦਿਓ:
 - i. ਮੁਹੱਲਾ
 - ii. ਰਬਾਬੀ

Exam Code: 121201

Paper Code: 1130 - R

Programme: Bachelor of Arts (Semester - I)

Course Title: Physical Education

Course Code: BARM-1384 ✓

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 08 marks.

Section-A

1. Explain the Term Physical Education. Describe the Aim and Objectives of Physical Education?
शारीरिक शिक्षा शब्द की व्याख्या कीजिए। शारीरिक शिक्षा के उद्देश्य और लक्ष्यों का वर्णन कीजिए।
ਸਰੀਰਕ ਸਿੱਖਿਆ ਸ਼ਬਦ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਟੀਚੇ ਅਤੇ ਉਦੇਸ਼ਾਂ ਦਾ ਵਰਣਨ ਕਰੋ।
2. Explain the relationship between Education and Physical Education.
शिक्षा और शारीरिक शिक्षा के बीच संबंध स्पष्ट कीजिए।
ਸਿੱਖਿਆ ਅਤੇ ਸਰੀਰਕ ਸਿੱਖਿਆ ਵਿਚਕਾਰ ਸਬੰਧਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

Section-B

3. Explain the Effects of Heredity and Environment on Growth and Development.
वृद्धि और विकास पर आनुवंशिकता और पर्यावरण के प्रभावों की व्याख्या करें।
ਵਾਧਾ ਤੇ ਵਿਕਾਸ 'ਤੇ ਖ਼ਾਨਦਾਨੀ ਅਤੇ ਵਾਤਾਵਰਣ ਦੇ ਪ੍ਰਭਾਵਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

4. Describe the Concept of Body types with suitable examples in sports.

खेलों में उपयुक्त उदाहरणों के साथ शरीर के प्रकार की अवधारणा का वर्णन करें।

ਖੇਡਾਂ ਵਿੱਚ ਦੁਕਵੀਆਂ ਉਦਾਹਰਣਾਂ ਦੇ ਕੇ ਸਰੀਰ ਦੇ ਪ੍ਰਕਾਰ ਦੇ ਸੰਕਲਪ ਦਾ ਵਰਣਨ ਕਰੋ।

Section-C

5. Describe the Development of Physical Education in India before Independence.

स्वतंत्रता से पूर्व भारत में शारीरिक शिक्षा के विकास का वर्णन कीजिए।

ਆਜ਼ਾਦੀ ਤੋਂ ਪਹਿਲਾਂ ਭਾਰਤ ਵਿੱਚ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਵਿਕਾਸ ਦਾ ਵਰਣਨ ਕਰੋ।

6. Write notes on the following: Punjab Sports Department and N.S.N.I.S.

निम्नलिखित पर टिप्पणियाँ लिखें: पंजाब खेल विभाग और एन.एस.एन.आई.एस.।

ਹੇਠ ਲਿਖੇ 'ਤੇ ਨੋਟ ਲਿਖੋ: ਪੰਜਾਬ ਖੇਡ ਵਿਭਾਗ ਅਤੇ ਐਨ.ਐਸ.ਐਨ.ਆਈ.ਐਸ.।

Section-D

7. Write about the Ceremonial Traditions of Modern Olympic Games.

आधुनिक ओलंपिक खेलों की औपचारिक परंपराओं के बारे में लिखें।

ਆਧੁਨਿਕ ਓਲੰਪਿਕ ਖੇਡਾਂ ਦੀਆਂ ਰਸਮੀ ਪਰੰਪਰਾਵਾਂ ਬਾਰੇ ਲਿਖੋ।

8. Write about the Commonwealth Games.

ਰਾਸ਼ਟਰਮੰਡਲ ਖੇਡਾਂ ਬਾਰੇ ਲਿਖੋ।

ਰਾਸ਼ਟਰਮੰਡਲ ਖੇਲਾਂ ਦੇ ਬਾਰੇ ਮੈਂ ਲਿਖਾਂ।

Exam Code: 121201

Paper Code: 1130

Programme: Bachelor of Arts (Semester – I)

Course Title: Physical Education

Course Code: BARM-1384

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 8 marks.

Section-A

1. Define the Term Physical Education. Discuss the Aims and Objectives of Physical Education.
शारीरिक शिक्षा शब्द को परिभाषित कीजिए। शारीरिक शिक्षा के उद्देश्य और लक्ष्यों पर चर्चा कीजिए।
ਸਰੀਰਕ ਸਿੱਖਿਆ ਸ਼ਬਦ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ। ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਟੀਚੇ ਅਤੇ ਉਦੇਸ਼ਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।
2. Explain these terms Education, Physical Education, Physical Training and Coaching.
शिक्षा, शारीरिक शिक्षा, शारीरिक प्रशिक्षण और कोचिंग इन शब्दों की व्याख्या करें।
ਸਿੱਖਿਆ, ਸਰੀਰਕ ਸਿੱਖਿਆ, ਸਰੀਰਕ ਸਿਖਲਾਈ ਅਤੇ ਕੋਚਿੰਗ ਇਹਨਾਂ ਸ਼ਬਦਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

Section-B

3. Describe the Meaning of Chronological Age, Physiological Age, Anatomical Age & Mental Age.
कालानुक्रमिक आयु, शारीरिक आयु, शारीरिक-रचना आयु और मानसिक आयु का अर्थ बताएं।
ਕਾਲਕ੍ਰਮਿਕ ਉਮਰ, ਸਰੀਰਕ ਉਮਰ, ਸਰੀਰ ਵਿਗਿਆਨਕ ਉਮਰ ਅਤੇ ਮਾਨਸਿਕ ਉਮਰ ਦੇ ਅਰਥ ਦੱਸੋ।

Exam Code: 121201

Paper Code: 1126

Programme: Bachelor of Arts (Semester – I)

Course Title: Psychology (Basic Psychological Processes)

Course Code: BARM-1443

Time Allowed: 3 Hours

Marks: 50

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks. Use of Non-Scientific Calculators is allowed.

SECTION – A

1. Write a note on the following:
 - a) Psychoanalysis
 - b) Functionalism
2. Explain Experimental Method in detail.

10

10

SECTION – B

3. Discuss the concept and nature of Motivation along with its types.
4. Compare and contrast James Lange and Cannon Bard theories of emotions.

10

SECTION – C

5. Discuss the different types of learning in detail.
6. Define learning. Discuss any two theories of learning.

10

10

SECTION – D

7. Discuss the concept and characteristics of Normal Probability Curve.
8. What is meant by the “Measures of Central Tendency”? Calculate Median of the following data:

10

10

Class-Intervals (scores)	Frequency (f)
80-84	1
75-79	0
70-74	2
65-69	3
60-64	0
55-59	0
50-54	2
45-49	0
40-44	2
35-39	2

Punjabi Version

ਨੋਟ: ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ, ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 10 ਅੰਕ ਹਨ। ਗੈਰ-ਵਿਗਿਆਨਕ ਕੈਲਕੂਲੇਟਰ ਦੀ ਵਰਤੋਂ ਦੀ ਆਗਿਆ ਹੈ।

ਭਾਗ - A

1. ਹੇਠ ਲਿਖਿਆਂ 'ਤੇ ਇੱਕ ਨੋਟ ਲਿਖੋ:
 - a) ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ
 - b) ਕਾਰਜਸ਼ੀਲਤਾ
2. ਪ੍ਰਯੋਗਾਤਮਕ ਵਿਧੀ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਸਮਝਾਓ।

10

10

ਭਾਗ - B

3. ਪ੍ਰੇਰਣਾ ਦੇ ਸੰਕਲਪ ਅਤੇ ਪ੍ਰਕਿਰਤੀ ਦੇ ਨਾਲ-ਨਾਲ ਇਸਦੀਆਂ ਕਿਸਮਾਂ ਦੀ ਚਰਚਾ ਕਰੋ।
4. ਭਾਵਨਾਵਾਂ ਦੇ ਜੇਮਜ਼ ਲੈਂਜ਼ ਤੇ ਕੈਨਨ ਬਾਰਡ ਸਿਧਾਂਤਾਂ ਦੀ ਤੁਲਨਾ ਅਤੇ ਵਿਪਰੀਤਤਾ ਕਰੋ।

10

10

ਭਾਗ - C

5. ਸਿੱਖਣ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਦੀ ਵਿਸਥਾਰ ਵਿੱਚ ਚਰਚਾ ਕਰੋ।
6. ਸਿੱਖਣ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ। ਸਿੱਖਣ ਦੇ ਕਿਸੇ ਵੀ ਦੋ ਸਿਧਾਂਤਾਂ ਦੀ ਚਰਚਾ ਕਰੋ।

10

10

ਭਾਗ - D

7. ਆਮ ਸੰਭਾਵਨਾ ਵਕਰ ਦੀ ਧਾਰਨਾ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੀ ਚਰਚਾ ਕਰੋ।
8. "ਕੇਂਦਰੀ ਪ੍ਰਵਿਰਤੀ ਦੇ ਮਾਪ" ਤੋਂ ਕੀ ਭਾਵ ਹੈ? ਹੇਠ ਦਿੱਤੇ ਡੇਟਾ ਦੇ ਮੱਧਮਾਨ ਦੀ ਗਣਨਾ ਕਰੋ:

10

ਸ਼੍ਰੇਣੀ-ਅੰਤਰਾਲ (ਸਕੋਰ)	ਬਾਰੰਬਾਰਤਾ (f)
80-84	1
75-79	0
70-74	2
65-69	3
60-64	0
55-59	0
50-54	2
45-49	0
40-44	2
35-39	2

खंड - क

- खंड – ख

- खंड - ग

- खंड – घ

- | वर्ग-अंतराल (स्कोर) | आवृत्ति (f) |
|---------------------|-------------|
| 80-84 | 1 |
| 75-79 | 0 |
| 70-74 | 2 |
| 65-69 | 3 |
| 60-64 | 0 |
| 55-59 | 0 |
| 50-54 | 2 |
| 45-49 | 0 |
| 40-44 | 2 |
| 35-39 | 2 |

Lib-28-11-25-(Eve) KMV II

(For Reappear Candidates (Old Syllabus (2023-24)))

Exam Code: 116401

Paper Code: 9101

Bachelor of Arts (Semester-I)

Course Title: Psychology (Basic Psychological Processes)

Course Code: BARM-1443

Time Allowed: 3 Hours

Maximum Marks: 60

Note – Attempt any five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any Section. Each question carries 12 marks.

Section – A

1. Describe and compare the major schools of psychology
2. Explain the steps involved in the experimental method of psychology.

Section – B

3. Explain the different types of motivation with suitable examples.
4. Compare and contrast the James-Lange and Cannon-Bard theories of emotion.

Section – C

5. Define learning by discussing its nature and characteristics.
6. Discuss B.F. Skinner's operant conditioning theory. How does it differ from classical conditioning?

Section – D

7. Define statistics and explain its importance in psychological research.
8. Calculate the Mean and Median of the following data

C.I	F
35-39	5
30-34	7
25-29	5
20-24	6
15-19	4
10-14	3
	N=30

Paper Code: 1124

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM- 1679
Bachelor of Science (Medical)	121301	BSMM-1676
Bachelor of Science (Non - Medical)		BSNM-1676
Bachelor of Science (Computer Science)		BCSM-1676
Bachelor of Science (Economics)		BECM-1676

Semester -I**Course Title: NCC (Army Cadets)****Time Allowed: 3 Hours****Max. Marks: 40**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section A

- Q1. Write the Aims and Objectives of NCC. 8
- Q2. What do you mean by NCC Camps and what are its Different types? 8

Section B

- Q3. What is National Integration? Write the factors affecting National Integration? 8
- Q4. Write the Threats to National Security? Explain. 8

Section C

- Q5. What do you mean by Critical and Creative Thinking? 8
- Q6. Write a short note on Decision making? 8

Section D

- Q7. What do you mean by NGO's? Explain. 8
- Q8. What are the contribution of NCC Cadets in Social service and Community Development? 8

(Punjabi Version)**Section A**

- ਪ੍ਰਸ਼ਨ 1. ਐਨ.ਸੀ.ਸੀ. ਦਾ ਟੀਚੇ (Aims) ਅਤੇ ਉਦੇਸ਼ (Objectives) ਲਿਖੋ। (8)
- ਪ੍ਰਸ਼ਨ 2. ਐਨ.ਸੀ.ਸੀ. ਕੈਂਪ (NCC Camps) ਨਾਲ ਤੁਸੀਂ ਕੀ ਸਮਝਦੇ ਹੋ ਅਤੇ ਇਸ ਦੇ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਕਿਹੜੀਆਂ ਹਨ? (8)

Section B

- ਪ੍ਰਸ਼ਨ 3. ਰਾਸ਼ਟਰੀ ਏਕਤਾ (National Integration) ਕੀ ਹੈ? ਰਾਸ਼ਟਰੀ ਏਕਤਾ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ ਲਿਖੋ। (8)
- ਪ੍ਰਸ਼ਨ 4. ਰਾਸ਼ਟਰੀ ਸੁਰੱਖਿਆ ਲਈ ਖ਼ਤਰੇ ਕਿਹੜੇ ਹਨ? ਸਮਝਾਓ। (8)

Section C

- ਪ੍ਰਸ਼ਨ 5. ਆਲੋਚਨਾਤਮਕ (Critical) ਅਤੇ ਰਚਨਾਤਮਕ (Creative) ਸੋਚ ਦਾ ਕੀ ਅਰਥ ਹੈ? (8)
- ਪ੍ਰਸ਼ਨ 6. ਫੈਸਲਾ ਲੈਣ (Decision Making) ਬਾਰੇ ਛੋਟਾ ਨੋਟ ਲਿਖੋ। (8)

Section D

- ਪ੍ਰਸ਼ਨ 7. ਗੈਰ-ਸਰਕਾਰੀ ਸੰਗਠਨ (NGOs) ਕੀ ਹਨ? ਸਮਝਾਓ। (8)
- ਪ੍ਰਸ਼ਨ 8 ਸਮਾਜਿਕ ਸੇਵਾ ਅਤੇ ਸਮੁਦਾਇਕ ਵਿਕਾਸ ਵਿੱਚ ਐਨ.ਸੀ.ਸੀ. ਕੈਂਡੇਟਾਂ ਦਾ ਯੋਗਦਾਨ ਕੀ ਹੈ? (8)

(Hindi Version)

Section A

- ਪ੍ਰਸ਼ 1. ਐਨ.ਸੀ.ਸੀ. (NCC) ਦਾ ਉਦੇਸ਼ ਅਤੇ ਲਕਸ਼ ਲਿਖਿਓ। (8)
- ਪ੍ਰਸ਼ 2. ਐਨ.ਸੀ.ਸੀ. ਸ਼ਿਵਿਰਾਂ (NCC Camps) ਤੋਂ ਆਪ ਕੀ ਸਮਝਦੇ ਹੋ ਅਤੇ ਇਨ੍ਹਾਂ ਦੇ ਵਿਭਿੰਨ ਪ੍ਰਕਾਰ ਕੌਨ-ਕੌਨ ਦੇ ਹਨ? (8)

Section B

- ਪ੍ਰਸ਼ 3. ਰਾਸ਼ਟਰੀ ਏਕਤਾ (National Integration) ਕੀ ਹੈ? ਰਾਸ਼ਟਰੀ ਏਕਤਾ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ ਲਿਖਿਓ। (8)
- ਪ੍ਰਸ਼ 4. ਰਾਸ਼ਟਰੀ ਸੁਰੱਖਿਆ ਦੇ ਲਈ ਖ਼ਤਰੇ ਕੀ ਹਨ? ਸਮਝਾਓ। (8)

Section C

- ਪ੍ਰਸ਼ 5. ਆਲੋਚਨਾਤਮਕ (Critical) ਅਤੇ ਰਚਨਾਤਮਕ (Creative) ਚਿੰਤਨ ਤੋਂ ਆਪ ਕੀ ਸਮਝਦੇ ਹੋ? (8)
- ਪ੍ਰਸ਼ 6. ਨਿਰਣੇ ਲੈਣ (Decision Making) 'ਤੇ ਸੰਖੇਪ ਟਿੱਪਣੀ ਲਿਖਿਓ। (8)

Section D

- ਪ੍ਰਸ਼ 7. ਗੈਰ-ਸਰਕਾਰੀ ਸੰਗਠਨ (NGO's) ਤੋਂ ਆਪ ਕੀ ਸਮਝਦੇ ਹੋ? ਸਪੱਸ਼ਟ ਕੀਜ਼ਿਓ। (8)
- ਪ੍ਰਸ਼ 8. ਸਮਾਜਿਕ ਸੇਵਾ ਅਤੇ ਸਮੁਦਾਇਕ ਵਿਕਾਸ ਵਿੱਚ ਐਨ.ਸੀ.ਸੀ. ਕੈਂਡੇਟਾਂ ਦਾ ਯੋਗਦਾਨ ਕੀ ਹੈ? (8)

Paper Code: 1321

Programme	Exam Code	Course Code
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1663
Bachelor of Vocation (Hospitality and Tourism)	113001	BVHL-1663

Semester-I

Course Title: Introduction to Tourism, Hospitality and Aviation Industry
(50)

Time Allowed: 3 Hours**Max Marks: 35**

Note: Attempt five questions from all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 7 marks.

Section - A

1. Trace and Define Tourism and explain its meaning and scope.
2. Explain the concept of "Paid Holiday" and its impact on modern tourism.

Section - B

3. What are the different types and forms of accommodation available in the hospitality industry?

4. Highlight the contributions of any two major hotel chains in India to the growth of the hospitality industry.

Section - C

5. Explain the role and functions of ICAO and IATA in the aviation industry.
6. What are the facilities provided to passengers at airports?

Section - D

7. Explain the interdependence between the Hospitality, Travel and Tourism industries.
8. What are the critical aspects of creating a "Home Away from Home" experience for guests?

Exam Code: 509501
(30)

Paper Code: 1255

**Programme: Bachelor of Business Administration (Airlines
and Airport Management)
Semester-I**

**Course Title: Fundamentals of Air Transport
System**

Course Code: BBML-1714

Time Allowed: 3 Hours

Max Marks: 70

Note: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries (14) marks

Section A

1. Evaluate the growth of major passenger airlines in India and their impact on the global air transport market.
2. (a) Compare and contrast the functions of passenger and cargo airlines.
(b) Discuss the significance of hybrid airlines in today's aviation industry.

Section B

3. Examine the process of flight preparation and the critical aspects that pilots and airlines must consider.

4. (a) Describe the flight strategy involved in aircraft selection for different flight routes
(b) Explain the limitations that affect aircraft during the en-route phase.

Section C

5. Discuss the role of the Directorate General of Civil Aviation (DGCA) in regulating civil aviation in India.
6. (a) Explain the functions of the International Air Transport Association (IATA).
(b) Analyze the significance of the Passenger Charter by the Ministry of Civil Aviation, India.

Section D

7. Evaluate the development of airport infrastructure in India, with a focus on accessibility and safety.
8. (a) Discuss the design considerations for airport terminal areas.
(b) Explain the importance of airport safety and security from the airport authority's perspective.

**Exam Code: 121701
(100)**

Paper Code: 1254

**Programme: Bachelor of Business Administration
Semester-I**

Course Title: Managerial Economics

Course Code: BBRL-1175

Time Allowed: 3 Hours

Max Marks: 70

Note:- Candidates are required to attempt five questions, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

Section A

1. What is Elasticity of demand? Explain the methods to measure Price Elasticity of demand.
2. Explain the Law of diminishing Marginal utility. Also discuss its criticism.

Section B

3. Define the term indifference curve. Discuss the properties of indifference curve.

4. State and explain the revealed preference analysis as a theory of consumer behaviour. How is it superior to indifference curve analysis?

Section C

5. Explain the law of variable proportions. Explain various stages of this law with the help of table and diagram.
6. Explain the traditional theory of costs both in the short run and in the long run with the help of suitable diagrams.

Section D

7. Explain the equilibrium of the firm and industry under perfect competition.
8. Define monopolistic competition. Explain equilibrium of the firms under monopolistic competition.

**Exam Code: 121701
(100)**

Paper Code: 1253

**Programme: Bachelor of Business Administration
Semester-I**

Course Title: Basic Accounting

Course Code: BBRL-1323 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note : - Attempt five question, selecting at least one question from each section. The fifth question may be attempted form any section. Each question carries 14 marks. Students can use simple Calculator.

Section- A

1. Explain the various concepts and conventions as applied to Financial Accounting.
2. Journalise the following transactions of a merchant of Delhi.

April 1, 2023:

Debit balances: Cash in hand Rs.24,000; Cash at Bank Rs. 50,000; Stock Rs. 36,000; Furniture Rs. 14,000; Buildings Rs. 70,000; Debtors Rs. 8,200

Credit balances: Outstanding rent Rs. 1,000; Creditors Rs. 9,000

		Rs.
Apr. 3	Purchased goods from Ram Lal	28,000
Apr. 5	Machinery Purchased from M/s Atma Ram and Sons	20,000
Apr. 6	Goods returned back to Ram Lal	5,000
Apr. 8	Goods sold to Sh. Vijay Mehta	35,000
Apr. 10	Depreciation written off on furniture	1,000
Apr. 11	Goods distributed as free sample	2,800
	Apr. 15 Goods worth Rs 6,000 destroyed by fire. Insurance company admitted claim of Rs. 4,000	
Apr. 18	Income tax paid by cheque Rs. 1,600	
Apr. 20	A customer who owe us Rs. 4000 became insolvent and a final dividend of 60 paise in a rupee received from his estate by cheque.	

S.

Section — B

3. Explain different methods of depreciation. What are the advantages and disadvantages of these methods?
4. From the following balances, prepare Trial Balance as on 31st March 2023:

	Rs		Rs
Loan from Mrs. Suresh Kumar	50,000	Capital	1,42,000
Drawings	6,000	Office Equipment	10,000
Land	25,000	Machinery	75,000
Building	52,500	Insurance Premium	600
Furniture	2,500	Opening Stock	37,500
Office rent	10,400	Purchases	2,40,000
Rates & taxes	5,500	Sales	3,60,000
Office Expenses	9,000	S. Debtors	30,000
S. Creditors	20,000	Carriage	1,000
Cash at Bank	15,500	Investments	50,000
Postage	700	Income from investments	2,500
Discount Allowed	1,000	Cash in hand	300
Advertisement	2,500	Discount Received	500

Section -C

5. What do you mean by Financial Statements? Explain the elements and usefulness of Financial Statements.
6. From the following Trial Balance of Ram as on March 31,2024, you are required to prepare Trading and Profit and Loss Account for the year ended March 31,2024

and a Balance sheet as on date after making the following adjustments:

Particulars	Debit Balance Rs.	Credit Balance Rs.
Capital		80,000
Drawings Account	6,000	
Plant and Machinery	25,000	
Opening Stock	15,000	
Purchases	82,000	
Returns Inwards	2,000	
Sundry Debtors	20,600	
Furniture and Fixtures	5,000	
Freight and Duty	2,000	
Carriage Onwards	500	
Rent and Taxes	4,600	
Trade Expenses	400	
Printing & Stationery	800	
Sundry Creditors.		10,000
Sales		1,20,000
Returns Outwards		1,000
Postage and Telegrams	800	
Provision for Doubtful Debts		400
Discounts		800
Rent of Premises Sublet		1,200
Insurance	700	
Salaries	21,300	
Cash in hand	6,200	
Cash at Bank	20,500	
Total	2,13,400	2,13,400

Adjustments:

- i) Stock on March 31, 2024 was valued at Rs. 15,000.
- ii) Write off Rs. 600 as bad debts.
- iii) Make a provision for doubtful debt at 5% on sundry debtors.
- iv) Provide depreciation on furniture and fixtures and plant and machinery at 5% and 20% p a respectively.
- v) A fire occurred on March 27, 2024 in the godown and stock of the value of Rs. 5,000 was destroyed.

Section- D

- 7. What is Computerised Accounting? Discuss the applications of computers in accounting.
- 8. Explain the important provisions of Companies Act, 2013 in respect of preparation of final accounts of a company.

Paper Code: 1256

Programme	Exam Code	Course Code
Bachelor of Business Administration	121701	BBRL-1324 ✓
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1095 ✓

Semester- I

**Course Title: Business Organization and Systems
(100)**

Time Allowed: 3 Hours**Max Marks: 70**

Note: Candidates are required to attempt five questions selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

Section -A

1. A business enterprise is an economic institution which is engaged in production and distribution of goods. Explain.
2. What do you mean by trade? Differentiate between trade and aids to trade?

Section -B

3. What are the different forms of Business Organisation?
Explain in detail?
4. What are the different problems faced by a business man while starting a new business?

Section -C

5. What is business ethics? Give its scope and importance.
6. Differentiate between foreign and domestic trade. Also discuss the intermediaries in domestic trade?

Section -D

7. Discuss the importance and functions of Stock Exchanges?
8. What are the recent trends in Wholeselling and retailing?

Paper Code: 1257

Programme	Exam Code	Course Code
Bachelor of Business Administration	121701	BBRM-1120
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBMM-1120

Semester-I

Course Title: Computer Applications for Business
(100)

Time Allowed: 3 Hours**Max Marks: 40**

NOTE: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 08 marks.

SECTION - A

1. What is a Computer? Explain various Components of a computer system. (8)
2. What do you mean by Internal and External Memory? Explain different types of memory in detail. (8)

SECTION - B

3. What is Operating System? Explain different types of Operating System in detail. (8)

4. Explain these Commands with examples:

(a) CD

(b) DIR

(c) SCANDISK

(d) MD/MKDIR

(4*2=8)

SECTION - C

5. Explain various formatting options available in MS-Word. (8)

6. What are Headers and Footers? Explain how to apply Header and Footer in a document? (8)

SECTION - D

7. Explain in MS-Excel:

(a) Autofill and Auto sum

(b) Protecting Cells

(4*2)

8. (a) Steps to insert pictures and graphics in PowerPoint

(b) Slide Sorter View

(4*2)

Lib 19/12/25 KMV-1 (BVB)

Paper Code: 9119

Programme	Exam Code	Course Code
Bachelor of Business Administration	121701	BBRM-1127

Semester-I

Course Title: Computer Applications for Business - I

Time Allowed: 3 Hours

Max Marks: 50

NOTE: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries (10) marks.

SECTION - A

1. What is a Computer? Explain various Components of a computer system. (10)
2. What do you mean by Internal and External Memory? Explain different types of memory in detail. (10)

SECTION - B

3. What is Operating System? Explain different types of Operating System in detail. (10)

4. Explain these Commands with examples:

- (a) CD
- (b) DIR
- (c) SCANDISK
- (d) MD/MKDIR

(2.5x4=10)

SECTION - C

5. Explain various formatting options available in MS-Word. (10)

6. What are Headers and Footers? Explain how to apply Header and Footer in a document? (10)

SECTION - D

7. Explain in MS-Excel:

- (a) Autofill and Auto sum
- (b) Protecting Cells

(5x2=10)

8. (a) Steps to insert pictures and graphics in PowerPoint

- (b) Slide Sorter View

(5x2=10)

Exam Code: 120601

Paper Code: 9114

Programme: Bachelor of Science (Bio-Technology) Semester: I

Course Title: Chemistry-I

Course Code: BBTL-1087

Time Allowed: 3 Hours

Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 16 marks.

Section-A

- (a) Name the type of isomerism exhibited by the following isomers: (4)
 - $[\text{Co}(\text{NH}_3)_5\text{ONO}] \text{Cl}_2$ - $[\text{Co}(\text{NH}_3)_5\text{NO}_2] \text{Cl}_2$
 - $[\text{Co}(\text{NH}_3)_5\text{SO}_4] \text{Br}$ - $[\text{Co}(\text{NH}_3)_5 \text{Br}] \text{SO}_4$
 - $[\text{Pt}(\text{NH}_3)_4] [\text{PtCl}_6]$ - $[\text{Pt}(\text{NH}_3)_4 \text{Cl}_2] [\text{PtCl}_4]$
 - $[\text{Co}(\text{en})_2\text{Cl}_2]\text{Cl} \cdot \text{H}_2\text{O}$ - $[\text{Co}(\text{en})_2 (\text{H}_2\text{O})\text{Cl}]\text{Cl} \cdot \text{H}_2\text{O}$
- (b) Write the formula for the following compounds : (4)
 - Sodium dicyanoaurate (I)
 - Hexaaqua iron (II) sulphate
 - sodium trioxalatoferrate (III)
 - triamminetrinitrocobalt (III)
- (c) Discuss the different geometries involved with coordination number 4 and coordination number 6. (8)
- (a) Describe the basic postulates of Werner's theory of coordination and its experimental verification. (8)
- (b) Discuss in detail the various factors affecting coordination numbers. (8)

Section-B

- (a) Discuss the valence bond theory of transition metal complexes. Give its limitations. (8)
- (b) Why is $[\text{CoF}_6]^{3-}$ paramagnetic whereas $[\text{Co}(\text{NH}_3)_6]^{3+}$ is diamagnetic? Explain using valence bond theory. (8)
- (a) Explain on the basis of VBT, whether the following complexes are diamagnetic and paramagnetic: (8)
 - $[\text{Cr}(\text{NH}_3)_6]^{3+}$
 - $[\text{Ni}(\text{Cl})_4]^{2-}$
- (b) Explain the concept of electroneutrality and back bonding in coordination complexes. (8)

Section-C

- (a) Explain with examples how thermodynamic and kinetic aspects influence the stability of coordinate compounds. (8)
- (b) Differentiate between crown ethers and cryptands. Discuss how cryptands enhance the stability of metal complexes compared to crown ethers, with examples. (8)
- (a) What is the macrocyclic effect? Discuss how it influences the stability of metal complexes and compare it to the chelate effect. Illustrate your answer with examples. (8)
- (b) Discuss the various factors affecting the stability of metal ion complexes. (8)

Section-D

- (a) What is crystal field stabilization energy? Calculate crystal field stabilization energy for the following systems: (8)
 - d^7 strong field octahedral
 - d^4 high spin octahedral
 - d^6 tetrahedral
- (b) With the help of a suitable diagram explain splitting in octahedral complexes. (8)
- (a) Show the splitting of d orbitals in tetrahedral field environment. (8)
- (b) Discuss the factors affecting the magnitude of Δ_0 . (8)

**Exam Code: 120601
(50)**

Paper Code: 1189

**Programme: Bachelor of Science (Bio-Technology)
Semester-I**

Course Title: Botany-I

Course Code: BBTM-1074 ✓

Time Allowed: 3 Hours

Max Marks: 50

Note:- Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries ten marks.

Section A

1. Discuss the general characteristics of Algae.
2. Write a detailed note on Binomial classification. Discuss its merits.

Section B

3. Discuss briefly the internal structure of structure of root in monocots.
4. Briefly describe the parenchymatous and sclerenchymatous tissue system.

Section C

5. What is pollination? Discuss its types and importance.
6. Write a detailed note on structure and development of ovule and female gametophyte.

Section D

7. Discuss the classification of plants given by Engler and Prantl. Give its merits and demerits
8. Give the economic importance of family Rutaceae. Discuss its important genera Citrus.

Exam Code: 120601
(50)

Paper Code: 1188

Programme: Bachelor of Science (Bio-Technology)
Semester-I

Course Title: Biochemistry-I

Course Code: BBTM-1083 ✓

Time Allowed: 3 Hours

Max Marks: 50

Note: Candidates are required to attempt any five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section A

1. (a) What is the pH? Write the pH concept. (5)
(b) Write the structure of water, also mentioned the chemical properties of water. (5)
2. (a) Derive the Henderson and Hasselbach equation. (5)
(b) What is the pKa? How you calculate pka value of a weak acid? (5)

Section B

3. (a) Write the biological functions of carbohydrates. (5)
(b) Write a short note on glycoproteins. (5)

4. (a) Mentioned five chemical reactions of carbohydrate/ glucose (5)
(b) What is the cellulose? Write its structure and significances. (5)

Section C

5. (a) Briefly describe the classification of lipids. (5)
(b) What is the terpene? Write the significance if terpenes. (5)
6. (a) What is sphingolipids. Write the structures of two sphingolipids (5)
(b) Write a short note on a cholesterol. (5)

Section D

7. (a) Write the five chemical reactions of amino acids. (5)
(b) Give the structure peptide bond, how it is important for protein structure (5)
8. Describe in brief about the various structural levels of proteins. (10)

Exam Code: 120601

Paper Code: 1190

Programme: Bachelor of Science (Bio-Technology)

Semester-I

Course Title: General Microbiology-I

Course Code: BBTM-1345 ✓

Time Allowed: 3 Hours

Max Marks: 50

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 10 marks.

Section-A

1. Write a short note on microbes in extreme environments.
2. Explain the morphology and structure of viruses, with special reference to bacteriophages.

Section-B

3. Describe the various types of bacterial staining techniques and their significance.
4. What are bacterial serotypes? Explain their importance.

Section-C

5. Discuss the basic concept of nutrient transport across microbial cell membranes.
6. Discuss the physical and chemical methods of sterilization.

Section-D

7. Explain the working principle and advantages of phase-contrast microscopy
8. Explain the principle and structure of scanning electron microscope.

Paper Code: 9/28

Programme	Exam Code	Course Code
Bachelor of Computer Applications	117901	BCAL-1113

Semester- I
Course Title: Digital Electronics

Time Allowed: 3 Hours

Max Marks: 80

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks. Use of Simple calculator is allowed.

(Section A)

1. a) $(F9)_{16} = (?)_8$

b) $(1011100011110)_{\text{Gray Code}} = (?)_{16}$

c) $(146.23)_{10} = (?)_{XS-3}$

d) $(10110011.1001)_2 = (?)_{10}$

2. a) Subtract 11000101 from 10001110 using 1's complement subtraction method.

b) $(0011\ 0011)_{BCD} - (0001\ 1000)_{BCD} = (?)_{BCD}$

c) Represent $-(70)_{10}$ in 8-bit 2's Complement Representation.

d) What do you mean by radix? Explain with an example.

(Section B)

3. a) Why NAND gate is termed as universal gate? Explain in detail.

b) Minimize $F(A,B,C,D) = \sum(1,2,3,6,9,11) \cup d(0,5,8)$.

4. a) Minimize $F = \overline{AB} + \overline{AB} + \overline{BC}$. Also draw the Boolean circuit of minimized expression.

b) What is standard POS form? How an expression is converted into it? Explain with an example.

(Section C)

5. a) What do you mean by Multiplexer? Explain with example. How 16:1 Multiplexer is created using only 4:1 Multiplexers?

b) What is full adder? Explain its truth table and internal structure.

6. We need to derive a main memory of size 128×8 from chips of size 32×4 .
- a) How many chips will be needed to build main memory?
 - b) How many chip select lines are used?
 - c) What will be the size of decoder?
 - d) Draw the memory interconnections.

(Section D)

7. a) Explain the working of SR flip-flop with truth and excitation table.
- b) What do you mean by edge triggering? Explain with suitable diagram.
8. a) What do you mean by PISO registers? Explain.
- b) Explain the working of Twisted Ring Counter in detail.

Paper Code: 9129

Programme	Exam Code	Course Code
Bachelor of Computer Applications	117901	BCAL -1114

Semester-I

Course Title Introduction to Programming – C

Time Allowed: 3 Hours

Max Marks: 80

Note:- Attempt FIVE questions, selecting at least ONE question from each section. All question carry equal marks (16 each). Fifth question can be attempted from any section.

SECTION-A

1. (a) Write Short note on

(1) Token

(2) Constant

(3) Variables

6

(b) What are the various Data types used in C?

10

2. What are the various operator used in C explain? And do you mean by operator Precedence and associativity explain?

16

SECTION- B

3. What do you mean by looping statement? Explain any two looping statement in detail? 16
4. What is Storage class. Explain with suitable examples 16

SECTION- C

5. (a)What is function? What are the different modes of passing parameters to function? 8
(b) What is recursion? Explain with suitable example? 8
6. Write a program to multiply two matrix and store result in third matrix? 16

SECTION- D

7. Define and distinguish between structure & union? What are the use of union? Explain with example? 16
8. Define pointer? How pointer to function used? Explain giving Example? 16

Exam Code: 117901

Paper Code: 1274

Programme: Bachelor of Computer Applications

Semester – I

Course Title: Introduction to Computers and Information
Technology

Course Code: BCAL-1115

Time Allowed: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

SECTION A

- Q.1. Explain the main Components of a Computer System, describing the function of each one. (14)
- Q.2. Explain System Software in detail. (14)

SECTION B

- Q.3. What are Printers? Explain the working of Laser and Inkjet Printers. (14)
- Q.4. Explain: (4*3.5)
- (a) Title Bar (b) Menu Bar (c) Status Bar (d) Ruler

SECTION C

- Q.5. Explain: (2*7)
- (a) Page Setup and Margins (b) Templates and Wizards
- Q.6. What do you know about Themes, Formatting and Multimedia in context to slides. (14)

SECTION D

- Q.7. Explain different types of Graphs, and the steps to create the graphs with examples. (14)
- Q.8. Discuss: (2*7)
- (a) User defined and Compatibility functions (b) Pivot Tables

(For Reappear Candidates Only (2023-24))

Exam Code: 117901

Paper Code: 9131

Bachelor of Computer Applications (Semester-I)

Course Title: Introduction to Computers and Information
Technology

Course Code: BCAL-1115

Time Allowed: 3 Hours

Max. Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 16marks.

Section-A

- Q.1. Explain the main Components of a Computer System, describing the function of each one. (16)
- Q.2. Explain System Software in detail. (16)

Section-B

- Q.3. What are Printers? Explain the working of Laser and Inkjet Printers. (16)
- Q.4. Explain: (4*4=16)
- (a) Title Bar (b) Menu Bar (c) Status Bar (d) Ruler

Section-C

- Q.5. Explain: (2*8=16)
- (a) Page Setup and Margins (b) Templates and Wizards
- Q.6. What do you know about Themes, Formatting and Multimedia in context to slides. (16)

Section-D

- Q.7. Explain different types of Graphs, and the steps to create the graphs with examples. (16)
- Q.8. Discuss: (2*8=16)
- (a) User defined and Compatibility functions (b) Pivot Tables

Semester: I

Time Allowed: 3 Hours

Max Marks: 70

Section A

- ## Section B

- ## Section C

- ## Section D

- 2125

(For Reappear Candidates (Old Syllabus 2023-24))

Exam Code: 117901

Paper Code: 9130

Bachelor of Computer Application (Semester-I)

Course Title: Punjabi (Compulsory)

Course Code- BCAL-1421

Time Allowed: 3 Hours

Max Marks: 80

ਨੋਟ : ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ - I

1. 'ਜਵਾਨ ਪੰਜਾਬ' ਦੇ ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।
2. 'ਪੰਛੀ ਹੋ ਜਾਵਾਂ' ਕਵਿਤਾ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।

ਸੈਕਸ਼ਨ - II

3. ਪੀਤਮ ਸਿੰਘ ਦੇ ਰੇਖਾ ਚਿੱਤ੍ਰ 'ਗੰਡਾ ਸਿੰਘ' ਦਾ ਸਾਰ ਲਿਖੋ।
4. ਜਸਵੰਤ ਸਿੰਘ ਵਿਰਦੀ ਦੇ ਰੇਖਾ ਚਿੱਤ੍ਰ 'ਪੂਰਨ ਸਿੰਘ' ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।

ਸੈਕਸ਼ਨ - III

5. ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰਾ ਰਚਨਾ ਕਰੋ।

1. ਲਾਇਬ੍ਰੇਰੀ

2. ਸੋਸ਼ਲ ਮੀਡੀਆ

3. ਮਾਤ ਭਾਸ਼ਾ ਦਾ ਮਹੱਤਵ

6. ਹੇਠ ਲਿਖੇ ਪੈਰੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਦਿੱਤੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਉ-

ਜਹਾਂਗੀਰ ਆਪਣੇ ਬਹੁਤ ਸਾਰੇ ਕੰਮਾਂ ਵਿੱਚ ਆਪਣੇ ਬਾਪ ਅਕਬਰ ਬਾਦਸ਼ਾਹ ਦੇ ਬਿਲਕੁਲ ਉਲਟ ਸੀ, ਪਰ ਧਾਰਮਿਕ ਵਿਚਾਰਾਂ ਵਿੱਚ ਤਾਂ ਦੋਹਾਂ ਵਿੱਚ ਜਮੀਨ ਅਸਮਾਨ ਦਾ ਫ਼ਰਕ ਸੀ। ਅਕਬਰ ਨੇ ਜਿੱਥੇ ਸਾਰੇ ਧਰਮਾਂ ਨੂੰ ਚੰਗਾ ਜਾਣਦੇ ਹੋਏ ਆਪਣੀ ਹਕੂਮਤ ਨੂੰ ਪੱਕਿਆਂ ਕਰਨ ਲਈ ਆਪਣੇ ਵਿਚਾਰ ਅਨੁਸਾਰ ਇੱਕ ਨਵੇਂ ਧਰਮ ਦੀ ਬੁਨਿਆਦ ਰੱਖ ਕੇ ਇਸਲਾਮੀ ਤੁਅੱਸਬ ਨੂੰ ਦੂਰ ਹਟਾ ਕੇ ਲੋਕਾਂ ਨੂੰ ਖੁਸ਼ ਕਰਨ ਦੀ ਪਾਲਿਸੀ ਅਖਤਿਆਰ ਕੀਤੀ ਸੀ, ਉਥੋਂ ਜਹਾਂਗੀਰ ਬਿਲਕੁਲ ਉਸ ਦੇ ਵਿਰੁੱਧ ਇਸਲਾਮੀ ਤੁਅੱਸਬ ਦਾ ਪੁਤਲਾ ਸੀ ਤੇ ਆਪਣੇ ਬਾਪ ਦੇ ਧਾਰਮਿਕ ਵਿਚਾਰਾਂ ਦੇ ਕਾਰਨ ਉਸ ਦੇ ਅੰਦਰੋਂ-ਅੰਦਰੀ ਸਖ਼ਤ ਵਿਰੋਧੀ ਸੀ। ਇਸ ਦਾ ਸਬੂਤ ਇਸ ਗੱਲ ਤੋਂ ਮਿਲਦਾ ਹੈ ਕਿ ਜਹਾਂਗੀਰ ਨੇ ਆਪਣੇ ਬਾਪ ਦੇ ਨਵੇਂ ਧਰਮ ਚਲਾਉਣ ਦੇ ਇਰਾਦੇ ਵਿੱਚ ਮਦਦ ਕਰਨ ਵਾਲੇ ਉਸ ਦੇ ਇੱਕ ਪੱਕੇ ਦੇਸਤ ਅੱਬੁਲ ਫਜ਼ਲ ਨੂੰ ਮਰਵਾ ਦਿੱਤਾ ਸੀ।

- 1) ਧਰਮ ਸੰਬੰਧੀ ਅਕਬਰ ਦੇ ਕੀ ਵਿਚਾਰ ਸਨ?
- 2) ਜਹਾਂਗੀਰ ਨੇ ਅੱਬੁਲ ਫਜ਼ਲ ਨੂੰ ਕਿਉਂ ਮਰਵਾਇਆ ਸੀ?
- 3) ਅਕਬਰ ਦਾ ਜਹਾਂਗੀਰ ਨਾਲ ਕੀ ਰਿਸ਼ਤਾ ਸੀ?
- 4) ਪੈਰੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਦਿਉ।

ਸੈਕਸ਼ਨ - IV

7. ਵਿਅੰਜਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਇਸਦੀਆਂ ਕਿਸਮਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਉ।
8. ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਦੀ ਪਰਿਭਾਸ਼ਾ ਤੇ ਉਚਾਰਨ ਅੰਗਾਂ ਬਾਰੇ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਦਿਉ।

(For Reappear Candidates Only (2021-22) and (2022-23))

Exam Code: 109101

Paper Code: 9121

Bachelor of Commerce (Honours) Semester –I

Course Title: Descriptive Statistics for Business

Course Code: BCOL-1173

Time Allowed : 3 hours

Max. Marks: 80

Note: Attempt five questions in all selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks.

Section-A

1. Explain the types of data with examples from business
2. a) Distinguish between sampling error and bias
b) Distinguish between numerical and categorical variables

Section-B

3. The following data show the preference of students regarding shoes such as Bata(B), Puma(P), Metro (M) and Sketcher (S)
B, B, P, S, M, M, M, B, P, P, S, B, B, B, P, M, P, S, S, S, P, B, M, B, M, B,
P, M, B, M, P, M, B, B, B, M, M, S, S, M, M, B, M, P, S, P, P, M, S, M.
a) Construct a frequency distribution and a relative frequency distribution
b) A Pie-chart
4. Consider the following data regarding the weight of students
55, 65, 42, 44, 48, 52, 55, 45, 42, 47, 47, 58, 49, 45, 47, 43, 36, 38, 37, 31,
39, 36, 31, 41, 43, 49, 48, 36, 39, 33, 29, 28, 26

- a) Construct a frequency distribution
 b) Draw a histogram and a frequency curve

Section-C

5. Find out the Mean and Mode

Age	16-20	21-25	26-30	31-35	36-40	41-45
No. of students	8	12	20	15	11	9

6. a) Calculate the standard deviation and coefficient of variation from the following data

X	10-20	20-30	30-40	40-50	50-60	60-70
F	4	8	12	9	6	3

- b) Discuss the merits and demerits of mean deviation.

Section-D

7. a) From the following data, find out the regression coefficients and r

Marks in Economics	28	29	30	31	32	33	34	35	36
Marks in Statistics	16	16	17	17	18	18	18	19	20

- b) Find out the properties of correlation coefficients.

8. Find out the skewness from the following data

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	4	6	12	8	5	6	4

(For Reappear Candidates Only (2022-23))

Exam Code: 109101

Paper Code: 9125

Bachelor of Commerce (Honours) Semester-I

Course Title: Microeconomics

Course Code: BCOL-1174

Time allowed: 3 Hours

Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 16 marks.

Section-A

1. Discuss the nature and scope of microeconomics and highlight the difference between micro and macroeconomics.
2. Explain the Law of Demand with the help of a schedule and diagram. Discuss the exceptions to this law.

Section-B

3. Explain the Law of Diminishing Marginal Utility and the Law of Equi-Marginal Utility. How do they help in understanding consumer choice?
4. Describe the concept of production function. Explain the short-run laws of production.

Section-C

5. Discuss the features of perfect competition and explain how price is determined in the short run and long run.
6. Explain the concept and degrees of price discrimination. How does a monopolist determine price and output under discriminating monopoly?

Section-D

7. Explain the features of monopolistic competition. How is price and output determined in the short run and long run?
8. What is an oligopoly? Explain the Kinked Demand Curve model.

(For Reappear Candidates Only (Session 2022-23))

Exam Code: 109101

Paper Code: 9123

Programme: Bachelor of Commerce (Honours) Semester: I

Course Title: Financial Accounting

Course Code: BCOM-1096

Time Allowed: 3 Hours

Max Marks: 50

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 10 marks.

Section- A

1. What is Financial Accounting? Explain its Nature, Scope and Limitations. 10
2. What is Accounting Equation? Prove that the two sides of equation are always equal. 10

Section- B

3. Journalise the following transactions in the books of Mr. Vikas: 10

Date	Transaction	Amount (₹)
Sept.1	Cash balance	3,500
	Bank balance	20,000
	Stock	3,800
	Furniture	1,200
	Buildings	25,000
	Debtors	8,400
	Creditors	5,200
Sept.2	Cash purchases (including IGST ₹850)	2,850
Sept.3	Received cheque from L.K. Das and deposited into bank	3,600
Sept.5	Settled the account of J.K. Traders by paying cash.	3,500
	Received discount	50
Sept.7	Withdrawn cash from bank	8,000
Sept.8	Cheque of L.K. Das got dishonoured	
Sept.9	Paid cheque on behalf of customer Sahu	300
Sept.12	Collected from debtors of last year	4,500
Sept.20	Paid LIC Premium for Mr. Vikas	500
Sept.25	Commission receivable	250
Sept.27	Goods given as charity	275
Sept.30	Rent due from Yogesh	250

4. What is a Cash Book? Explain and illustrate different types of cash book. 10

Section- C

5. Define Depreciation. Explain Straight Line Method and Written Down Value method of charging depreciation along with suitable examples. 10
6. Give Journal Entries to rectify the following errors:
 1. Goods purchased from Amit for ₹ 2,600 were recorded in Sales Book by mistake.
 2. Goods for ₹ 4,400 sold to Suresh was passed through Purchase Book.
 3. A customer returned goods worth ₹ 1,000. It was recorded in 'Purchase Returns Book'.
 4. A credit sale of ₹ 126 to Rohit was entered in the books as ₹ 162.
 5. Sale of old chairs and Table for ₹ 700 was treated as sale of goods.
 6. Rent of proprietor's residence, ₹ 800, debited to Rent A/c.

10

Section- D

7. Jagat submits to you the following trial balance. Prepare Trading and Profit & Loss Account for the year ending 2017 and Balance Sheet as on 31st December 2017.

Name of the Account	Debit (₹)	Credit (₹)
Opening stock		
Furniture	50,000	
Plant and machinery	1,00,000	
S. Debtors	3,50,000	
Wages	50,000	
Salaries	5,000	
Bad debts	12,000	
Purchases	1,000	
Power & fuel	1,20,000	
Telephone charges	1,500	
S. Creditors	2,000	
Sales		60,000
Return inward		3,80,000
Return outward	10,000	
Freight		15,000
Capital	2,500	
Commission		5,82,000
General Expenses		5,000
Insurance	3,000	
Cash	5,000	
Bank	15,000	
Building	25,000	
Drawings	4,00,000	
Loan from a friend	40,000	
Total	11,92,000	1,50,000
		11,92,000

Adjustments:

- Closing stock was ₹1,20,000.
- Provide depreciation on building @ 10% p.a. and plant and machinery @20% p.a.
- During the year goods worth ₹5,000 were lost by Fire. Insurance company admitted the claim for ₹4,000.
- Create provision for bad debts @5%.
- Goods worth ₹ 2,000 were withdrawn for personal use.
- Included in plant and machinery was a machine purchased for ₹1, 00,000 on 1st October 2017.
- Insurance premium paid in advance ₹500.
- Interest on loan @10% is due for the year.

8. Following Receipts and Payment account is prepared from the cash book of Amar Charitable Trust, Delhi for the year ended 31st March, 2007:

Receipts	Amount (₹)	Payments	Amount (₹)
To Balance b/d		By Salaries	12,000
Cash in hand	2,000	By Insurance	3,000
Cash in current A/c	4,000	By Printing & Stationary	2,000
Cash in deposits	5,000	By Advertisements	7,000
To Donations	6,000	By Postage	500
To Legacies	8,000	By Furniture	5,000
To Interest on Investments	1,000	By Investments	10,000
To Endowment Fund receipts	2,500	By Advance for Building	8,000
To Subscription	25,000	By Balance c/d	
To Life membership subscription	3,000	Cash in hand	1,000
		Cash in current A/c	6,000
		Cash in deposits	2,000
	56,500		56,500

Prepare Income and Expenditure account and Balance Sheet as on 31-03-2007 after considering the following:

- 50% of donations and legacies are to be capitalised.
- Provide for salaries ₹1,000 and advertisements ₹500.
- Salaries prepaid is ₹800 on 1-4-06.
- Interest ₹200 is accrued on investment.
- Subscription due: 31-3-06 ₹1,800 and 31-03-07 ₹1,200
- Insurance prepaid on 31-3-07 ₹1,000.

Lib 29/11/25 (EVE) K.M.V. +

Exam Code: 121101
(80)

Paper Code: 1249

Programme: Bachelor of Commerce
Semester-I

Course Title: Financial Accounting

Course Code: BCRL-1093 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks. Students can use simple Calculator.

Section-A

1. Explain various Concepts of Accounting along with their implications.
2. Define Financial Accounting? Explain the objectives, scope and limitations of Accounting.

Section – B

3. From the list of balances extracted from the books of Mr. Kapil as on 31st March 2021, prepare the final accounts.

	Amount (Rs.)		Amount (Rs.)
Opening Stock	44,000	Bad Debts	1,600
Premises	40,000	Provision for Bad Debts	1,000
Creditors	26,600	Carriage inward	3,600
Overdraft	8,400	Commission paid	4,400
Discount allowed	3,200	Salaries	18,000
Discount received	4,000	General expenses	8,000
Sales	2,96,000	Taxes and Insurance	4,000
Furniture	5,200	Purchases	2,20,000
Capital	60,000	Rent received	2,000
Drawings	10,000	Debtors	36,000

Adjustments

- i) Stock on hand on 31st March, 2021 was Rs. 40,000.
 - ii) Write off Depreciation: Premises Rs. 600 and Furniture Rs. 520.
 - iii) Make a provision of 5% on Debtors for bad and doubtful debts.
 - iv) Allow interest on capital at 5% p.a.
 - v) Prepaid insurance Rs. 1400.
 - vi) Goods costing Rs. 3,000 were lost due to fire, but insurance company admitted the claim for Rs. 2,000 only.
4. What is Voyage Account? Explain the accounting treatment of complete voyage and incomplete voyage with examples.

Section- C

5. Ram consigned 2,000 kg of tea costing Rs. 60 per kg to Hari of Nagpur. Ram paid Rs. 3,000 for freight and insurance. Hari sent a bank draft of Rs. 10,000 to Ram. Hari incurred expenses on unloading Rs. 200, godown rent Rs. 500. He sold 1,200 kg of tea for cash for Rs. 1,00,000. 200 kgs of tea were lost in transit, the insurance company admitted claim for Rs. 9,000. Hari returned 200 kgs of tea for its poor quality, incurring expenses of Rs. 250. He is entitled to a commission of 5% on sales. Hari sent a bank draft for the amount due. Show Consignment Account, Hari Account, Goods sent on consignment Account and Abnormal Loss Account in the books of Ram.
6. What is Joint Venture? Explain the accounting treatment of joint venture transactions when separate set of joint venture books are maintained.

Section- D

7. Kalyan Bros. of Bombay have a branch at Delhi. The goods are sent to branch at cost price to be sold for cash and credit. The transactions during the year are as under:

Branch Stock on 1.1.2011	Rs. 9,000
Branch Debtors on 1.1.2011	Rs. 3,000
Branch Bank Balance on 1.1.2011	Rs. 2,800
During 2011, Goods sent by Head Office to Branch	Rs. 18,000
Goods returned by branch	Rs. 360
Cash sales paid into bank	Rs. 4,800
Credit Sales	Rs. 24,000
Goods returned by customers	Rs. 180
Cheques received from customers	Rs. 22,000
Discount allowed	Rs. 440
Bad Debts written off	Rs. 260
Cash remittance by branch to Head Office	Rs. 25,000
Wages and Salaries paid by branch	Rs. 400
Miscellaneous expenses paid by branch	Rs. 200
Rent and Rates paid by Head Office	Rs. 500
Branch Stock on 31.12.2011	Rs. 6,420
Branch Debtors	?
Branch Bank	?

Compute branch profit under Stock and Debtors method.

8. Discuss the objectives and merits of preparing departmental accounts. Also explain and illustrate the basis of allocation of various indirect expenses among various departments.

**Exam Code: 121101
(80)**

Paper Code: 1250

**Programme: Bachelor of Commerce
Semester-I**

Course Title: Business Organisation

Course Code: BCRL-1094 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Candidates are required to attempt five questions selecting one question from each section. The fifth question may be attempted from any section. Each question carries (14) marks.

Section -A

1. A business enterprise is an economic institution which is engaged in production and distribution of goods. Explain.
2. What are the different ethical issues in context of present business situation?

Section -B

3. What are the different forms of Business Organisation? Explain in detail?

4. What do you mean by joint stock company? Explain its characteristics.

Section -C

5. What are different factors that effect the size of Industry? Explain in detail?
6. What are the different factors to be considered while making firm optimum?

Section -D

7. Discuss the importance & functions of Stock Exchanges?
8. What are the different types of Business Combinations? Also explain its causes?

Exam Code: 121101
(80)

Paper Code: 1252

Programme: Bachelor of Commerce
Semester-I

Course Title: Computer Applications in Business

Course Code: BCRM-1120 ✓

Time Allowed: 3 Hours

Max Marks: 40

Note:- Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. each question carries equal (8) marks.

Section A

1. (a) Define Computer. Explain various types of computers. 4
(b) Define software, firmware, liveware and hardware. 4
2. Define operating system also explain in detail various functions performed by it in computer system. 8

Section B

3. (a) What do you mean by word processing? Explain the features of word processing software. 4

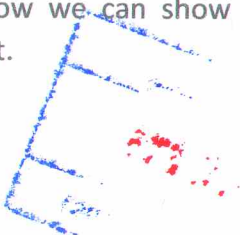
- (b) What do you understand by page formatting? Explain important page formatting tasks done by a user for making a document well formatted. 4
4. (a) Explain the auto correct and find replace features of word. 4
- (b) Define mail merge. Explain how we can use this in our document. 4

Section C

5. Define presentation. Explain the features which can be used for making a professional presentation. 8
6. (a) Define media. Explain which types of media can be added in a presentation. 4
- (b) Explain the animation feature and its uses in presentation. 4

Section D

7. Define spreadsheet. Explain in details various important features available in the spreadsheet software. 8
8. (a) Define formula. Explain how we can apply a formula on data stored in a worksheet. 4
- (b) Explain charts and graphs feature of spreadsheet. Explain how we can show a graph of data stored in worksheet. 4



Exam Code: 121101
(80)

Paper Code: 1251

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1175 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Question paper comprises of 4 sections. Students are required to attempt five questions, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries 14 marks. Simple calculators can be allowed to make necessary calculations.

Section -A

1. Define Arithmetic mean. Also explain various mathematical properties of it. 14
2. Given the mode=725, find the number of workers in wage group of 650-700. 14

wages	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950-1000
No. of workers	100	105	120	F1	250	150	100	105	90	80

Section -B

3. Find out mean deviation from median from the following data: 14

X	5-15	15-25	25-35	35-45	45-55	55-65	65-75
F	7	12	17	25	31	5	3

4. In the correlation study, the following values are obtained: 14

	X	Y
Mean	65	67
Standard deviation	2.5	3.5
Coefficient of Correlation	0.8	

Find lines of regression of X on Y and Y on X.

Section-C

5. What is index number? What are the various problems faced while construction index numbers? 14
6. From the following data find out the Fisher's price index. Also prove that it fulfills factor reversal and time reversal test. 14

Commodities	Base year		Current Year	
	Price	Quantity	Price	Quantity
A	10	12	12	15
B	7	15	5	20
C	5	24	9	20
D	16	5	14	5

Section D

7. From the following data fit trend using 5 yearly moving average 14

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sales in lakhs	13	12	12	13	14	13	12	12	14	15	15	14	14	16	17

8. (a) A bag contains 5 red balls and 3 white balls. The other bag contains 4 red and 8 white balls. One ball is drawn at random. What is the probability of a red ball? 8
- (b) A bag contains 7 white and 9 black balls. Two balls are drawn without replacement. Find out the probability that both are white. 6

Exam Code: 121101

Paper Code: 9117

9117

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours

Max Marks: 60

Note: Question paper comprises of 4 sections. Students are required to attempt five questions, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries 12 marks. Simple calculators can be allowed to make necessary calculations.

Section -A

1. Define Arithmetic mean. Also explain various mathematical properties of it. 8
2. Given the mode=725, find the number of workers in wage group of 650-700. 8

wages	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950-1000
No. of workers	100	105	120	F1	250	150	100	105	90	80

Section -B

3. Find out mean deviation from median from the following data: 8

X	5-15	15-25	25-35	35-45	45-55	55-65	65-75
F	7	12	17	25	31	5	3

4. In the correlation study, the following values are obtained: 8

	X	Y
Mean	65	67
Standard deviation	2.5	3.5
Coefficient of Correlation	0.8	

Find lines of regression of X on Y and Y on X.

Section-C

5. What is index number? What are the various problems faced while construction index numbers? 8
6. From the following data find out the Fisher's price index. Also prove that it fulfills factor reversal and time reversal test. 8

Commodities	Base year		Current Year	
	Price	Quantity	Price	Quantity
A	10	12	12	15
B	7	15	5	20
C	5	24	9	20
D	16	5	14	5

Section D

7. From the following data fit trend using 5 yearly moving average

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sales in lakhs	13	12	12	13	14	13	12	12	14	15	15	14	14	16	17

8. (a) A bag contains 5 red balls and 3 white balls. The other bag contains 4 red and 8 white balls. One ball is drawn at random. What is the probability of a red ball? 5
- (b) A bag contains 7 white and 9 black balls. Two balls are drawn without replacement. Find out the probability that both are white. 3

Exam Code: 121101

Paper Code: 9118

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours

Max Marks: 80

Note: Question paper comprises of 4 sections. Students are required to attempt five questions, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries 16 marks. Simple calculators can be allowed to make necessary calculations.

Section -A

1. Define Arithmetic mean. Also explain various mathematical properties of it. 16
2. Given the mode=725, find the number of workers in wage group of 650-700. 16

wages	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950-1000
No. of workers	100	105	120	FI	250	150	100	105	90	80

Section -B

3. Find out mean deviation from median from the following data: 8 16

X	5-15	15-25	25-35	35-45	45-55	55-65	65-75
F	7	12	17	25	31	5	3

4. In the correlation study, the following values are obtained: 16

	X	Y
Mean	65	67
Standard deviation	2.5	3.5
Coefficient of Correlation	0.8	

Find lines of regression of X on Y and Y on X.

Section-C

5. What is index number? What are the various problems faced while construction index numbers? 16
6. From the following data find out the Fisher's price index. Also prove that it fulfills factor reversal and time reversal test. 16

Commodities	Base year		Current Year	
	Price	Quantity	Price	Quantity
A	10	12	12	15
B	7	15	5	20
C	5	24	9	20
D	16	5	14	5

Section D

7. From the following data fit trend using 5 yearly moving average 16

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sales in lakhs	13	12	12	13	14	13	12	12	14	15	15	14	14	16	17

8. (a) A bag contains 5 red balls and 3 white balls. The other bag contains 4 red and 8 white balls. One ball is drawn at random. What is the probability of a red ball? 10
- (b) A bag contains 7 white and 9 black balls. Two balls are drawn without replacement. Find out the probability that both are white. 6

(For Reappear Candidates (Old Syllabus 2022-23))

Exam Code: 103301

Paper Code: 9126

Bachelor of Science (Semester-I)

Course Title: Mathematics (Algebra)

Course Code: BECM-1333 (I)

Time Allowed: 3 Hours

Max. Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 08 marks.

Section- A

1(a) Reduce the Matrix $\begin{bmatrix} 3 & -2 & 1 \\ 2 & -1 & 3 \\ 1 & -2 & 1 \end{bmatrix}$ to the form I_3 and find rank. (4)

(b) Determine whether the following matrices have same Column space or not?

$$A = \begin{bmatrix} 1 & 3 & 5 \\ 1 & 4 & 3 \\ 1 & 1 & 9 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 3 \\ -2 & -3 & -4 \\ 7 & 12 & 17 \end{bmatrix} \quad (4)$$

2 (a) Show that the system of equations, $3x + y - z = 1$, $5x + 2y + 3z = 2$, $8x + 3y + 2z = 3$ is consistent and hence solve them. (4)

(b) Find the value of k such that the columns of the matrix $\begin{bmatrix} 2 & 1 & k \\ -1 & 2 & 2 \\ 0 & 1 & -1 \end{bmatrix}$ are linearly dependent. (4)

Section- B

3 (a) Find the characteristic roots and their corresponding characteristic vectors for the matrix

$$\begin{bmatrix} 1 & 0 & 0 \\ 3 & 1 & 0 \\ -7 & 5 & 1 \end{bmatrix} \quad (4)$$

3 (b) Write down the quadratic form corresponding to the following symmetric matrix

$$\begin{bmatrix} 0 & 1 & 2 & 3 \\ 1 & 2 & 3 & 4 \\ 2 & 3 & 4 & 5 \\ 3 & 4 & 5 & 6 \end{bmatrix} \quad (4)$$

4 (a) Prove that if the eigen values of A are $\lambda_1, \lambda_2, \dots, \lambda_n$, then the eigen values of A^2 are $\lambda_1^2, \lambda_2^2, \dots, \lambda_n^2$. (4)

(b) Verify Cayley-Hamilton theorem for the matrix A , where

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix} \quad (4)$$

Section- C

5 (a) Prove that the quadratic form $6x_1^2 + 3x_2^2 + 14x_3^2 + 4x_2x_3 + 18x_3x_1 + 4x_1x_2$ is positive definite. (4)

(b) Reduce the following Symmetric matrix to a diagonal form and interpret the result in terms of quadratic form

$$A = \begin{bmatrix} 3 & 2 & -1 \\ 2 & 2 & 3 \\ -1 & 3 & 1 \end{bmatrix} \quad (4)$$

6 (a) Prove that every positive definite or semi-definite matrix can be represented as gram matrix. (4)

(b) Reduce the forms $x^2 + 2y^2 + 3z^2 + 2xy + 2yz - 2zx$ to canonical form. Find the rank and index. (4)

Section- D

7 (a) Use Descarte's method to solve $x^4 - 10x^3 + 35x^2 - 50x + 24 = 0$ (4)

(b) Solve the equation $x^3 - 7x^2 + 36 = 0$, one root being double the other. (4)

8 (a) Remove the second term from the equation $x^4 - 16x^3 + 86x^2 - 176x + 105 = 0$ and hence solve it completely. (4)

(b) Find by Newton's Method of approximation the root near to 2 of $x^4 - 12x + 7 = 0$ correct to three decimal places. (4)

Exam Code: 103301

Paper Code: 9127

ELO
Programme: Bachelor of Science (Semester-I)
Course Title: Mathematics (Calculus and Trigonometry)
Course Code: BECM-1333(II)

Time Allowed: 3 Hours

Max. Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 08 marks.

Section-A

- 1(a) Prove that $\sqrt{2}$ is an irrational number. (4)
- (b) Find the solution set satisfying the inequality $|x^2 + x + 2| < 8, x \in R$ (4)
- 2(a) Using definition of limit, show that $\lim_{x \rightarrow 3} (11 - 2x) = 5$ (4)
- (b) Examine the continuity of the function defined by $f(x) = \begin{cases} \frac{|x-a|}{x-a}, & x \neq 0 \\ 1, & x = a \end{cases}$, at the point $x=a$ (4)

Section-B

- 3(a) Differentiate $\tanh^{-1}(\sinh x)$ w.r.t x (4)
- (b) If $f(x) = \tan x$, show that $f''(0) = 16$ (4)
- 4(a) State and prove Taylor's Theorem (4)
- (b) Evaluate $\lim_{x \rightarrow 0} (\sin x)^{\tan x}$ (4)

Section -C

- 5(a) Prove that $\left(\frac{\cos \theta + i \sin \theta}{\sin \theta + i \cos \theta} \right)^4 = \cos 8\theta + i \sin 8\theta$ (4)
- (b) Find the fourth roots of $-1 + i\sqrt{3}$ (4)
- 6(a) Find the primitive 8th roots of unity (4)
- (b) Expand $\cos 7\theta$ and $\sin 7\theta$ in powers of $\cos \theta$ and $\sin \theta$ (4)

Section-D

- 7(a) If $\sin(u + iv) = x + iy$, then prove that $\frac{x^2}{\sin^2 u} - \frac{y^2}{\cos^2 u} = 1$ (4)
- (b) Separate $\tan(x + iy)$ into real and imaginary parts (4)
- 8(a) Sum to n terms of the series $\operatorname{cosec} \alpha + \operatorname{cosec} 2\alpha + \operatorname{cosec} 4\alpha + \dots$ (4)
- (b) Using Gregory's series prove that $1 - \frac{1}{3^2} + \frac{1}{5 \cdot 3^2} - \frac{1}{7 \cdot 3^3} + \dots = \frac{\pi}{2\sqrt{3}}$ (4)

**Exam Code: 119601
(60)**

Paper Code: 1294

**Programme: Bachelor of Science (Fashion Designing)
Semester-I**

Course Title: Concept of Fashion

Course Code: BFDL-1233 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Students are required to attempt five questions in all, choosing one question from each section and fifth question from any section. All questions carry equal marks (14).

Section-I

1. Write a short note on the following:
 - a) Fad
 - b) Trend
2. Write a note on the following:
 - a) Haute couture
 - b) Silhouette

Section-II

3. Define fashion forecasting. Explain the difference between short term and long term fashion forecasting.
4. Write a note on principles of fashion.

Section-III

5. Explain the social factors affecting fashion.
6. Write a note on accelerating and retarding factors affecting fashion cycle.

Section-IV

7. Write a note on the following:
 - a) Broken fashion cycle
 - b) Trickle across theory
8. Explain the stages of fashion cycle in detail. Illustrate it.

Exam Code: 119601
(60)

Paper Code: 1295

Programme: Bachelor of Science (Fashion Designing)
Semester-I

Course Title: Basics of Design and
Illustration

Course Code: BFDM-1234

Time Allowed: 3 Hours

Max Marks: 50

NOTE—Attempt five questions, all questions carry equal marks (10 marks), Selecting at least one question from each section. The fifth question may be attempted from any section.

SECTION-A

1. With the help of illustration explain different types of rendering and shading techniques? 10
2. Write in detail about different types of brushes, oil colours, water colours and acrylic colours? 10

SECTION-B

3. Discuss the following principles of design with examples
 - a. Harmony
 - b. Rhythm (5x2=10)

4. Write a note on elements of design and explain why they are important in garment designing? 10

SECTION-C

5. Define Design? How many types of design are used in apparel designing? 10
6. Write in detail about different body figures and basic human proportion? 10

SECTION-D

7. Explain in detail about primary, secondary, tertiary, warm colours, cool colours and tints and shades with examples? 10
8. Explain related and contracting colour schemes with examples and diagrams? 10

Exam Code: 119601
(60)

Paper Code: 1296

Programme: Bachelor of Science (Fashion Designing)
Semester-I

Course Title: Basics of Sewing-I

Course Code: BFDM-1235

Time Allowed: 3 Hours

Max Marks: 50

Note:- Attempt five questions in all, Selecting atleast one from each section. Fifth question can be attempted from any section Each question carries 10 Marks.

Section-A

1. Discuss Tools and equipment used for cutting during garment construction? (10)
2. What do you know about equipment that are used for Measurements? (10)

Section-B

3. Draw a well labelled diagram of a sewing machine and discuss its parts? (10)
4. What are Causes and Adjustments of following Defects of sewing machine
 - a) Needle breaking
 - b) Puckering(5x2=10)

Section-C

5. What are various elements used to add Fullness in Garments? (10)
6. Explain Different types of seams and their applications in garment construction? (10)

Section-D

7. What do you know about different types of fasteners used in Garments. (10)
8. Define Placket? Write about different plackets used in different dresses? (10)

**Exam Code: 119601
(60)**

Paper Code: 1297

**Programme: Bachelor of Science (Fashion Designing)
Semester-I**

Course Title: Traditional Textiles

Course Code: BFDM-1236

Time Allowed: 3 Hours

Max Marks: 50

NOTE:— Attempt five questions all questions carry equal marks (10 marks) Selecting at least one question from each section. The fifth question may be attempted from any section.

Section -A

1. Write a brief note on durries of India? 10
2. Explain in detail about Painted Textiles of India? 10

Section -B

3. Discuss about Patola textile in detail? 10
4. Write a note on bandhani textile? 10

Section -C

5. Explain history, motifs, colours, and manufacturing process of Baluchari saree? 10

6. Write a brief note on Maheshwari saree? 10

Section -D

7. Write a brief note on origin, material used, stitches,
design used in kantha embroidery? 10
8. Explain Kasuti embroidery in detail? 10

Exam Code: 119701

Paper Code: 1191

Programme: Bachelor of Science (Home Science)

Semester – I

Course Title: Introduction to Human Development

Course Code: BHSL-1283 ✓

Time: 3 Hours

Max. Marks: 35

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 7 marks.

SECTION-A

- Q1 Explain in detail the principles of development. Differentiate between growth and development.
- Q2 Write short notes on (any two)
- a) Learning
 - b) Scope of human development
 - c) General characteristics of various stages of human life
 - d) Job avenues in the field of human development

SECTION-B

- Q3 Describe the prenatal environmental influence on the development of the fetus?
- Q4 Describe the characteristic symptom care and complications of pregnancy.

SECTION-C

- Q5 Discuss types of delivery in detail.
- Q6 What is reflex? Discuss common reflexes of a neonate.

SECTION-D

- Q7 What is the role of father during pregnancy and after birth?
- Q8 Describe the importance of sleeping schedules and making beds.

Exam Code: 119701

Paper Code: 1192

Programme: Bachelor of Science (Home Science)

Semester – I

Course Title: Hygiene

Course Code: BHSL-1284

Time: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

Section – A

1. Write a short on personal hygiene.
2. Define infection. How can infection be prevented?

Section – B

3. Write short note on COVID-19.
4. Write about the causes, symptoms and methods of prevention of Tuberculosis.

Section – C

5. Write about the disease which are caused by sexual contact and explain HIV in detail.
6. Write about the causes symptoms and modes of prevention of malaria.

Section – D

7. Explain the source of water purification at home.
8. Explain the types of water.

Exam Code: 119701

Paper Code: 1195

Programme: Bachelor of Science (Home Science) Semester-I

Course Title: Computer Basics

Course Code: BHSM-1127 ✓

Time: 3 Hours

Max. Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

SECTION-A

1. (a) Define Computer. What are various components of a Computer system? Explain each one. 4
- (b) Discuss different types of printers. 4
2. (a) Differentiate between Primary Memory and Secondary Memory. 4
- (b) Discuss the input devices: Keyboard, Mouse, Joystick. 4

SECTION -B

3. (a) Explain the following features along with their usage in MS-Word:
(i) Table Formatting (ii) Templates 4
- (b) Discuss the following features with their usage in MS-word:
(i) Page Setup (ii) Spell Check 4
4. (a) How can you add a header and footer to a document? Illustrate with example. 5
- (b) How do you use the 'Find and Replace' features in word? 3

SECTION-C

5. Why MS-PowerPoint is used? What are the elements of MS-PowerPoint? 8
6. Discuss the following features of MS-PowerPoint
(i) View (ii) Slide Show 4, 4

SECTION-D

7. What is WWW? Explain its working. 4
8. Explain different features of E-Mail like creating, reading, replying, sending mail. 4

Exam Code: 119701

Paper Code: 1193

Programme: Bachelor of Science (Home Science)

Semester – I

Course Title: Basic Food and Nutrition

Course Code: BHSM-1285 ✓

Time: 3 Hours

Max. Marks: 50

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section –A

1. Write about the importance of food.
2. Define nutrient, nutrition, malnutrition.

Section –B

3. What are the effects of cooking on nutritive value of food?
4. Write about the different methods of cooking and explain any one method of cooking in detail.

Section – C

5. Write about the composition and classification of carbohydrates
6. What are essential and non-essential amino acids?

Section – D

7. What is basal metabolism?
8. Which factors are affecting our energy requirements?

Exam Code: 119701

Paper Code: 1194

Programme: Bachelor of Science (Home Science)

Semester – I

Course Title: Applied Art

Course Code: BHSM-1286

Time: 3 Hours

Max. Marks: 50

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section - A

- Q1 What is the meaning and importance of Art, Fine Art and Applied Art?
- Q2 Explain the application of Color, Texture, Pattern, light and space in interiors. What are the different types of art media?

Section - B

- Q3 Explain the optical illusion created by colors with examples. What is the emotional importance of colors?
- Q4 Explain the principles of Rhythm and Harmony. Explain related color schemes.

Section - C

- Q5 Explain the terms motif and design. Explain different types of motifs.
- Q6 What are the main objectives of Art? Explain enlargement and reduction of size in design.

Section D

- Q7 Explain the prevalence of Rangoli in different states of India. How does it play a significant role?
- Q8 What are the materials, motifs, rules followed in Rangoli. Draw diagrams showing traditional motifs used in Rangoli with their significance.

Lib 26/11/25 (Eve) KMD I

Paper Code: 1276

Programme	Exam Code	Course Code
Bachelor of Science (Information Technology)	118001	BITL-1113 ✓
Bachelor of Computer Applications	117901	BCAL-1113 ✓

Semester- I

Course Title: Digital Electronics
(80)

Time Allowed: 3 Hours**Max Marks: 70**

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks. Use of Simple calculator is allowed.

(Section A)

- $(F9)_{16} = (?)_8$
 - $(1011100011110)_{\text{Gray Code}} = (?)_{16}$
 - $(146.23)_{10} = (?)_{\text{XS-3}}$
 - $(10110011.1001)_2 = (?)_{10}$
- Subtract 11000101 from 10001110 using 1's complement subtraction method.
 - $(0011\ 0011)_{\text{BCD}} - (0001\ 1000)_{\text{BCD}} = (?)_{\text{BCD}}$

- c) Represent $-(70)_{10}$ in 8-bit 2's Complement Representation.
- d) What do you mean by radix? Explain with an example.

(Section B)

3. a) Why NAND gate is termed as universal gate? Explain in detail.
- b) Minimize $F(A,B,C,D) = \sum(1,2,3,6,9,11) \cup d(0,5,8)$.
4. a) Minimize $F = \overline{A}\overline{B} + \overline{A}B + \overline{B}\overline{C}$. Also draw the Boolean circuit of minimized expression.
- b) What is standard POS form? How an expression is converted into it? Explain with an example.

(Section C)

5. a) What do you mean by Multiplexer? Explain with example. How 16:1 Multiplexer is created using only 4:1 Multiplexers?
- b) What is full adder? Explain its truth table and internal structure.

6. We need to derive a main memory of size 128×8 from chips of size 32×4 .
 - a) How many chips will be needed to build main memory?
 - b) How many chip select lines are used?
 - c) What will be the size of decoder?
 - d) Draw the memory interconnections.

(Section D)

7.
 - a) Explain the working of SR flip-flop with truth and excitation table.
 - b) What do you mean by edge triggering? Explain with suitable diagram.
8.
 - a) What do you mean by PISO registers? Explain.
 - b) Explain the working of Twisted Ring Counter in detail.

Paper Code: 1277

Programme	Exam Code	Course Code
Bachelor of Science (Information Technology)	118001	BITL -1114 ✓
Bachelor of Computer Applications	117901	BCAL -1114 ✓

Semester-I**Course Title Introduction to Programming – C
(80)****Time Allowed: 3 Hours****Max Marks: 70**

Note:- Attempt FIVE questions, selecting at least ONE question from each section. All question carry equal marks (14 each). Fifth question can be attempted from any section.

SECTION-A

1. (a) Write Short note on
 - (1) Token
 - (2) Constant
 - (3) Variables6
- (b) What are the various Data types used in C? 8
2. What are the various operator used in C explain? And do you mean by operator Precedence and associativity explain? 14

SECTION- B

3. What do you mean by looping statement? Explain any two looping statement in detail? 14
4. What is Storage class. Explain with suitable examples 14

SECTION- C

5. (a)What is function? What are the different modes of passing parameters to function? 7
(b) What is recursion? Explain with suitable example? 7
6. Write a program to multiply two matrix and store result in third matrix? 14

SECTION- D

7. Define and distinguish between structure & union? What are the use of union? Explain with example? 14
8. Define pointer? How pointer to function used? Explain giving Example? 14

Exam Code: 118001

Paper Code: 1275

Programme: Bachelor of Science (Information Technology)

Semester – I

Course Title: Fundamentals of Computers

Course Code: BITL-1115

Time Allowed: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks.

SECTION A

- Q.1. Explain the main Components of a Computer System, describing the function of each one. (14)
- Q.2. Explain System Software in detail. (14)

SECTION B

- Q.3. What are Printers? Explain the working of Laser and Inkjet Printers. (14)
- Q.4. Explain: (4*3.5)
- (a) Title Bar (b) Menu Bar (c) Status Bar (d) Ruler

SECTION C

- Q.5. Explain: (2*7)
- (a) Page Setup and Margins (b) Templates and Wizards
- Q.6. What do you know about Themes, Formatting and Multimedia in context to slides. (14)

SECTION D

- Q.7. Explain different types of Graphs, and the steps to create the graphs with examples. (14)
- Q.8. Discuss: (2*7)
- (a) User defined and Compatibility functions (b) Pivot Tables

Lib 13/12/25 KMV -1(EVE)

Paper Code: 1279

Programme	Exam Code	Course Code
Bachelor of Science (Information Technology)	118001	BITM-1110 ✓
Bachelor of Computer Applications	117901	BCAM-1110 ✓

Semester- I**Course Title: Introduction to the Internet****(80)****Time Allowed: 3 Hours****Max Marks: 40**

Note: There are eight questions of equal marks (8 marks each). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A

1. What do you mean by the term Internet? Discuss its evolution. (8)
2. a) Discuss the various Internet Service Providers. (6)
b) Differentiate between website and web page. (2)

Section B

3. Discuss the Email Etiquette in detail. (8)
4. a) How search engine works? Explain (5)

- b) What are various operators that can be used in searches. Give examples. (3)

Section C

5. Compare and contrast any two productivity tools. (8)
6. What are various collaboration and communication tools available? Discuss. (8)

Section D

7. a) Explain digital footprints. Also discuss their importance. (5)
- b) How can you create professional online profile. (3)
8. Write a note on the following
- a) Digital distraction
 - b) Online reputation
 - c) Personal branding
 - d) Digital citizenship (4*2=8)

(FOR REAPPEAR CANDIDATES ONLY (2022-23))

Paper Code: 9/32

Programme	Exam Code	Course Code
Bachelor of Science (Information Technology)	118001	BITM-1114 ✓

Semester-I**Course Title Introduction to Programming – C****Time Allowed: 3 Hours****Max Marks: 50**

Note:- Attempt FIVE questions, selecting at least ONE question from each section. All question carry equal marks (10 each). Fifth question can be attempted from any section.

SECTION-A

1. (a) Write Short note on

- (1) Token
- (2) Constant
- (3) Variables

(b) What are the various Data types used in C? 4

2. What are the various operator used in C explain? And do you mean by operator Precedence and associativity explain? 10

SECTION- B

3. What do you mean by looping statement? Explain any two looping statement in detail? 10
4. What is Storage class. Explain with suitable examples 10

SECTION- C

5. (a) What is function? What are the different modes of passing parameters to function? 5
(b) What is recursion? Explain with suitable example? 5
6. Write a program to multiply two matrix and store result in third matrix? 10

SECTION- D

7. Define and distinguish between structure & union? What are the use of union? Explain with example? 10
8. Define pointer? How pointer to function used? Explain giving Example? 10

Exam Code: 116401

Paper Code: 1145

**Programme: Bachelor of Arts (Journalism and Mass
Communication) Semester-I**

Course Title: Principles of Communication

Course Code: BJML-1313 ✓

Time: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

Section – A

1. What are the seven C's of communication? Out of these seven, which is the most important 'C'? Discuss.
2. Write an essay on: 'Objectives, scope and functions of communication'.

Section – B

3. While giving examples, discuss various elements of a communication process.
4. How communication in the digital age has changed the face of human communication? Discuss.

Section – C

5. How inter-personal communication is different from mass communication? Discuss.
6. Discuss the importance of body language in human communication and relationships.

Section – D

7. Discuss Two Step Flow Theory in detail. How has the role of opinion leaders changed in the recent past? Discuss.
8. Draw and discuss Schramm's model of communication.

Exam Code: 116401

Paper Code: 1146

Programme: Bachelor of Arts (Journalism and Mass

Communication) Semester-I

Course Title: Reporting and Editing - I

Course Code: BJML-1314 ✓

Time: 3 Hours

Max. Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 14 marks.

SECTION-A

- Q1. Discuss the functions and responsibilities of a reporter.
Q2. Explain different types of lead.

SECTION-B

- Q3. Explain different types of headlines.
Q4. Write a short note on:
a) Crime beat b) Politics beat

SECTION-C

- Q5. Discuss the functions of editor and sub-editor.
Q6. What are the responsibilities of a copy-editor?

SECTION-D

- Q7. Discuss the structure and functions of newsroom.
Q8. What is the relevance of assigning different beats to the reporter?
Give examples.

Exam Code: 116401

Paper Code: 1147

**Programme: Bachelor of Arts (Journalism and
Mass Communication) Semester - I**

Course Title: History of Print Media

Course Code: BJML- 1315

Time Allowed: 3 Hours

Max Marks: 70

Note: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question will carry fourteen marks.

Section A

1. Write a detailed note on the history of Indian Journalism?
2. Trace the history of PTI.

Section B

3. Write in detail the contribution of James Augustus Hickey in Indian Journalism.
4. What is the journalistic contribution of Mahatma Gandhi?

Section C

5. Write a detailed note on the Vernacular Press Act.
6. Explain in detail the Copyright Act.

Section D

7. Discuss in detail the history of Ajit newspaper?
8. Write a detailed note on the history of The Tribune newspaper.

Paper Code: 1101

Programme	Exam Code	Course Code
Bachelor of Arts (Journalism and Mass Communications)	116401	BJML-1421
Bachelor of Science (Fashion Designing)	119601	BFDL-1421 ✓
Bachelor of Science (Home Science)	119701	BHSL-1421
Bachelor of Computer Applications	117901	BCAL-1421 ✓
Bachelor of Science (Information Technology)	118001	BITL-1421 ✓
Bachelor of Science (Bio-Technology)	120601	BBTL-1421
Bachelor of Science (Medical Laboratory Technology)	509701	BMML-1421
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1421 ✓

Semester-I

Course Title: Punjabi (Compulsory)
(200)

Time Allowed: 3 Hours**Max Marks: 70**

ਨੋਟ- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 14 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-।

1. ਹੇਠ ਲਿਖਿਆਂ ਕਾਵਿ ਸਤਰਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ:
ਖਾਨਗਾਹੀ ਦੀਵਾ ਬਾਲਦੀਏ, ਕੀ ਲੋਚਦੀਏ? ਕੀ ਭਾਲਦੀਏ।
ਕੀ ਰੁੱਸ ਗਿਆ ਤੇਰਾ ਢੁੱਲ ਕੁੜੇ? ਯਾ ਸੱਖਣੀ ਤੇਰੀ ਝੋਲ ਕੁੜੇ?
ਯਾ ਸਰਘੀ ਵੇਲੇ ਤੱਕਿਆਈ, ਕੋਈ ਡਾਢਾ ਭੈੜਾ ਸੁਫਨਾ ਨੀ?
ਜੁ ਕਰਦੀ ਮਾਰੋ ਮਾਰ ਕੁੜੇ, ਤੂੰ ਪਹੁੰਚੀ ਵਿੱਚ ਉਜਾੜ ਕੁੜੇ।
2. 'ਆਖਾਂ ਵਾਰਸ ਸ਼ਾਹ ਨੂੰ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-II

3. 'ਦੂਜਾ ਵਿਆਹ' ਇਕਾਂਗੀ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਸਪਸ਼ਟ ਕਰੋ।
4. 'ਅੱਖ ਅੱਗੇ ਕੱਖ' ਇਕਾਂਗੀ ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-III

5. ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰਾ ਰਚਨਾ ਕਰੋ:
(ੳ) ਦਾਜ ਦੀ ਸਮੱਸਿਆ
(ਅ) ਖੇਡਾਂ ਦੀ ਮਹੱਤਤਾ

6. ਉਪਰੋਕਤ ਪੈਰੇ ਨੂੰ ਧਿਆਨ ਨਾਲ ਪੜ੍ਹੋ ਤੇ ਹੇਠਾਂ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲਿਖੋ—

ਝੂਠ ਬੋਲਣਾ ਪਾਪ ਮੰਨਿਆ ਗਿਆ ਹੈ ਤੇ ਸੱਚ ਬੋਲਣਾ ਇੱਕ ਵੱਡਾ ਧਰਮ। ਇਸ ਸਿੱਟੇ ਨੂੰ ਸਦਾਚਾਰਕ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਤੋਂ ਕੋਈ ਸਮਝਦਾਰ ਮਨੁੱਖ ਖੰਡਨ ਕਰਨ ਦਾ ਯਤਨ ਭਾਲ ਕਿਉਂ ਕਰੇਗਾ? ਪਰ ਫੇਰ ਇਸ ਸਿਧਾਂਤ ਬਾਰੇ ਕੀ ਅਜਿਹੀਆਂ ਗੱਲਾਂ ਹਨ, ਜਿਨ੍ਹਾਂ ਨੂੰ ਆਖੇ ਬਿਨਾਂ ਜੁਬਾਨ ਨਹੀਂ ਰੁਕ ਸਕਦੀ ਤੇ ਜਿਨ੍ਹਾਂ ਨੂੰ ਵਰਣਨ ਕਰਨਾ ਮਨੁੱਖ ਸੋਝੀ ਦੇ ਵਾਧੇ ਲਈ ਜ਼ਰੂਰੀ ਹੈ, ਭਾਵੇਂ ਉਹਨਾਂ ਨੂੰ ਸਦਾਚਾਰ ਲਈ ਹਾਨੀਕਾਰਕ ਹੀ ਗਿਣਿਆ ਜਾਵੇ। ਝੂਠ ਮਿੱਠਾ ਹੁੰਦਾ ਹੈ, ਇਸ ਨੂੰ ਬਜ਼ੁਰਗਾਂ ਨੇ ਮੰਨਿਆ ਹੈ। ਸਿਆਣਿਆਂ ਦਾ ਕਥਨ ਹੈ, ‘ਸੱਚ ਮਿਰਚਾਂ’ ਤੇ ‘ਝੂਠ ਗੁੜ’ ਕਿਸੇ ਭੈੜੇ ਆਦਮੀ ਨੂੰ ਭੈੜਾ ਕਹੋ ਜ਼ਾਲਮ ਨੂੰ ਜ਼ਾਲਮ ਅਤੇ ਮੂਰਖ ਨੂੰ ਮੂਰਖ, ਤਾਂ ਉਹ ਸੁਣ ਕੇ ਕ੍ਰੋਧਵਾਨ ਹੋਵੇਗਾ ਤੇ ਸਮੱਰਥਾ ਅਨੁਸਾਰ ਇਸ ਅਣਭਾਉਂਦੇ ਸੱਚ ਬੋਲਣ ਵਾਲੇ ਨੂੰ ਕਸ਼ਟ ਦੇਣ ਦਾ ਯਤਨ ਕਰੇਗਾ। ਇਸੇ ਲਈ ਪੁਰਾਣੇ ਸਮਿਆਂ ਵਿੱਚ ਜਦ ਕਦੀ ਰਾਜਿਆਂ ਤੇ ਰਈਸਾਂ ਨੂੰ ਉਹਨਾਂ ਦੀ ਕੋਈ ਗਲਤੀ ਦੀ ਚੇਤਾਵਨੀ ਦੇਣੀ ਹੁੰਦੀ ਸੀ, ਤਾਂ ਉਹਨਾਂ ਦੇ ਦਰਬਾਰੀ ਨਿਕਟਵਰਤੀ ਕਿਸੇ ਸੁੰਦਰ ਜਾਂ ਮਨੋਰੰਜਨ ਝੂਠੇ ਸਵਾਂਗ ਰਾਹੀਂ ਉਨ੍ਹਾਂ ਦਾ ਧਿਆਨ ਇਸ ਪਾਸੇ ਖਿੱਚਦੇ ਸਨ।

1. ਸਿਆਣਿਆਂ ਨੇ ਸੱਚ ਨੂੰ ਮਿਰਚਾਂ ਤੇ ਝੂਠ ਨੂੰ ਗੁੜ ਕਿਉਂ ਕਿਹਾ ਹੈ?

2. ਸਦਾਚਾਰ ਵਿੱਚ ਝੂਠ ਨੂੰ ਕੀ ਨਾਂ ਦਿੱਤਾ ਗਿਆ ਹੈ?
3. ਪਿਛਲੇ ਸਮੇਂ ਵਿੱਚ ਰਾਜਿਆਂ ਤੇ ਰਈਸਾਂ ਦੀ ਭੁੱਲ ਨੂੰ ਕਿਵੇਂ ਚਿਤਾਰਿਆ ਜਾਂਦਾ ਸੀ?
4. ਉਪਰੋਕਤ ਪੈਰੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-IV

7. ਭਾਸ਼ਾ ਦੇ ਟਕਸਾਲੀ ਰੂਪ ਤੇ ਨੋਟ ਲਿਖੋ।
8. ਪੰਜਾਬੀ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਦੇ ਪਛਾਣ ਚਿੰਨ੍ਹ ਉੱਪਰ ਨੋਟ ਲਿਖੋ।

Paper Code: 1113

Programme	Exam Code	Course Code
Bachelor of Arts (Journalism and Mass Communication)	116401	BJMM-1102
Bachelor of Science (Fashion Designing)	119601	BFDM-1102
Bachelor of Science (Home Science)	119701	BHSM-1102
Bachelor of Computer Applications	117901	BCAM-1102
Bachelor of Science (Information Technology)	118001	BITM-1102
Bachelor of Science (Bio-Technology)	120601	BBTM-1102
Bachelor of Science (Medical Laboratory Technology)	509701	BMLM-1102
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBMM-1102
Bachelor of Vocation (Retail Management)	122001	BVRM-1102
Bachelor of Vocation (Animation)	112801	BVAM-1102
Bachelor of Vocation (Nutrition and Dietetics)	510011	BVNM-1102
Bachelor of Vocation (Beauty and Wellness)	112601	BVBM-1102
Bachelor of Vocation (Artificial Intelligence and Data Science)	112901	BVIM-1102
Bachelor of Vocation (Hospitality and Tourism)	113001	BVHM-1102

Semester-I

Course Title: Communication Skills in English – I
(300)

Time Allowed: 3 Hours**Max Marks: 50**

Note: The candidates will have to attempt five questions in all selecting one from each section and the fifth question from any of the four sections. Each question will carry 10 marks.

Section – A

1. Describe the various kinds of reading.
2. What is PSQ5R model of reading?

Section – B

3. Read the following passage and answer the questions in multiple choice form. Mark (v) in front of the right answer:

Trees give shade for the benefits of others, and while they themselves stand in the sun and endure the scorching heat, they produce the fruit by which others profit. The character of good men is like that of trees. What is the use of this perishable body if no use is made of it for the benefit of mankind? Sandalwood, the more it is rubbed, the more scent does it yield. Sugarcane, the more it is peeled and cut up into pieces, the more juice does it produce. The men who are noble at heart do not lose their qualities even in losing their life. What matters it whether men praise them or not. What difference does it make whether they die at this moment or whether their lives are prolonged? Happen

what may, those who tread in the right path will not set foot in any other. Life itself is unprofitable to a man who does not live for others. To live for the mere sake of living one's life is to live the life of dogs and crows. Those who lay down their lives for the sake of others will assuredly dwell forever in a world of bliss.

I. There is great similarity between trees and good men, which is:

- a) both do good to others
- b) both live long
- c) both face hardships
- d) both do not complain of suffering

II. Life itself is ^{un}profitable if man does not live for others.

This statement means:

- a) Man should serve others
- b) he should improve his well-being
- c) he should give away to others whatever he has
- d) he should do good to others when they need help.

III. Sandalwood, when rubbed more, gives

-
- a) solace
 - b) more scent
 - c) relief
 - d) satisfaction

IV. A noble person does not set his foot in :

- a) other's shoes
- b) wet land
- c) slush
- d) the wrong path

V. 'Endure' can be replaced with _____

- a) beat
- b) assure
- c) last long
- d) care

4. Read the following passage carefully and answer the question the follow:

That science has become one of the most powerful factors in modern life is a generally accepted and indeed obvious fact. The proper role of the scientist himself is, however, a point on which there is no general agreement. On the one hand are those diehards who, ignoring the changed circumstances of the outside world, contend that outside the laboratory, the personal influence of the scientist should be no more than that of any other citizen. On the other hand are extremists who advocate a state verging on a technocracy in which scientists would have special privileges and a large measure of control. Those who tend towards the latter view are much more vociferous than their conservative and much more numerous

colleagues, with unfortunate result that there is a widespread impression that scientists generally share these views and wish to claim a far larger share in the control of the world affairs than they possess at present. It is therefore, time to attempt an assessment of the proper status of the scientist in modern society.

Questions:

- a) What is the present position of science and that of a scientist in society?
- b) Is there any common view about the role of a scientist in modern society?
- c) What is the argument advanced by the conservatives?
- d) How do the extremists contradict the conservatives?
- e) What is the need of the hour?

Section – C

5. What are the different guidelines for effective writing?
6. Write a letter to your father requesting him to allow you to attend the marriage of your friend.

Section – D

7. As Coordinator of a Youth Club you conducted a meeting of all the members regarding a Tree Plantation Drive to be organized in the coming week. Draft a notice, agenda and minutes of the meeting.

8. Write in detail the meaning and tips for effective blog writing.

(For Reappear Candidates Only (2023-24))

Exam Code: 121301

Paper Code: 9115

Programme:- Bachelor of Science (Honours) Mathematics (Semester-I)

Course Title:- Calculus-I

Course Code:-BOML-1333

Time Allowed:- 3 Hours

Max. Marks:- 80

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 16 marks.

Section-A

1(a) Find g.l.b and l.u.b of the set $S = \left\{ \frac{2+x}{2-x} : 0 \leq x \leq 1 \right\}$ (8)

(b) State and Prove Archimedian property of real numbers. (8)

2(a) By use of definition of limit, prove that $\lim_{x \rightarrow 3} (1 - 3x) = -8$ (8)

(b) Let $f(x) = \begin{cases} 4, & x = 1 \\ a + bx, & x < 1 \\ b - ax, & 1 < x \end{cases}$ Determine the constants a and b so that f may be continuous for $x = 1$ (8)

Section-B

3(a) Find the intervals on which $g(x) = 2x^3 - 9x^2 + 12x + 15$, is increasing and decreasing. (8)

(b) Find local Maxima and local Minima, if any, of $f(x) = (x - 1)(x + 2)^2$ (8)

4. State and prove Rolle's theorem. Also Verify Rolle's theorem for $f(x) = x(x - 5)^2$ in $0 \leq x \leq 5$ (16)

Section-C

5(a) Determine the concavity, convexity and points of inflexion of the curve $y = x^3$ (8)

(b) Find asymptotes of the curve $(x - y + 1)(x - y - 2)(x + y) = 8x - 1$ (8)

6(a) Trace the curve $y = 2x^3 - 6x + 1$ (8)

(b) State and prove Intermediate value theorem (8)

Section-D

7(a) Evaluate the following integrals as limit of sum $\int_0^5 (x - 1) dx$ (8)

(b) Find the whole length of the curve $y = x^{2/3}$ from $x = -1$ to $x = 8$ (8)

8(a) Obtain Reduction formula for $I_n = \int \sec^n x dx$. Hence evaluate I_5 (8)

(b) Find the area of the region bounded by $y = x, x = -1$ and $x = 1$ (8)

Exam Code: 509701

Paper Code: 1196

Programme: Bachelor of Science (Medical Laboratory
Technology) Semester- I

Course Title: Basics of Human Physiology- I

Course Code: BMLL-1483 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 14 marks. Draw neat and well labelled diagrams wherever required.

Section A

1. a) Explain parts of cerebrum and its functions in detail. 7
b) What are neurotransmitters? Explain with examples. 7
2. Describe the transmission of nerve impulse in nerve fibre in detail. 14

Section B

3. a) Define reflex action. Describe physiology of reflex action and its types. 7
b) What is autonomic nervous system? Explain its types and functions. 7
4. Explain sympathetic and parasympathetic nervous system and its functions. 14

Section C

5. Explain sliding filament theory of muscle contraction in detail. 14
6. a) What is neuromuscular junction? Explain the biochemical events occurring at neuromuscular junction. 7
b) Differentiate between myosin and actin filaments. 7

Section D

7. Explain physiology of blood circulation in heart in detail. 14
8. Write a note on following:
a) Cardiac cycle 7
b) Functions of blood and lymphatic system 7

Exam Code: 509701

Paper Code: 1197

Programme: Bachelor of Science (Medical Laboratory
Technology) Semester: I

Course Title: Basics of Human Anatomy-I

Course Code: BMLL-1484

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section (A to D). Fifth question can be attempted from any section. Draw diagrams wherever necessary. Each question carries 14 marks.

Section - A

1. Describe the process of bone formation. 14
2. a. What is fracture? Explain various types of fractures. 7
b. Draw a well labelled diagram of Human skeletal system. 7

Section - B

3. a. Differentiate between cardiac, skeletal and smooth muscles. 7
b. What is neuromuscular junction? 7
4. Write a note on anatomy of skeletal muscle fiber. 14

Section - C

5. Explain the venous system of Human diagrammatically. 14
6. a. What is blood? Explain its composition in detail. 7
b. Draw a well labelled diagram of internal structure of Human Heart. 7

Section - D

7. Describe in detail the respiratory system of human. 14
8. a. Write a note on microscopic anatomy of lobule of lung. 7
b. What is larynx? Explain in detail structure and function of larynx. 7

Exam Code: 509701

Paper Code: 1198

Programme: Bachelor of Science (Medical Laboratory
Technology) Semester - I

Course Title: Principles of Biochemistry

Course Code: BMLL-1485

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting at least one question from each section (A to D). Fifth question can be attempted from any section. Each question carries 14 marks. Draw diagrams wherever necessary.

Section - A

1. What are Carbohydrates? Give detailed classification along with examples. (14)
2. A. Discuss the properties of monosaccharides. (7)
B. Write a note on structure and function of cellulose. (7)

Section - B

3. Write a note on classification and functions of lipids with suitable examples. (14)
4. A. Discuss detailed structure of tRNA. (7)
B. Differentiate between DNA and RNA (7)

Section - C

5. What are Proteins? Write a detailed note on various levels of organization of its structure. (14)
6. A. Discuss various chemical interactions present in Proteins. (7)
B. Write a note on essential and non-essential amino acids. (7)

Section - D

7. What are Vitamins? Write a detailed note on fat soluble vitamins and their functions. (14)
8. Define enzymes? Give detailed account on its classification. (14)

Exam Code: 121301
(50)

Paper Code: 1186

Programme: Bachelor of Science
Semester-I

Course Title: Botany (Diversity of Cryptogams)

Course Code: BSML-1075 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks. Draw labelled diagrams wherever necessary.

Section-A

1. Discuss the habit of algae. (14)
2. Write short notes on the following:
 - i) Asexual reproduction in Volvox (6)
 - ii) Growth in Oedogonium (6)
 - iii) Synzoospores in Vaucheria (2)

Section-B

3. Briefly describe the diagnostic features of fungi. (14)
4. Discuss any two of the following: (7 marks each)

- i) Draw life cycle of *Phytophthora*
- ii) Sexual reproduction in *Mucor*
- iii) Development of Basidiocarp in *Agaricus* (14)

Section-C

- 5. Describe briefly about the morphology of sex organs in *Marchantia*. Give diagrammatic life cycle of *Marchantia*. (14)
- 6. Describe any two of the following: (7 marks each)
 - i) Thallus structure (morphological and anatomical) of *Anthoceros*
 - ii) Sporophyte of *Funaria*
 - iii) Diagrammatic life cycle of *Funaria* (14)

Section- D

- 7. What are Pteridophytes? Discuss general characters of pteridophytes. (14)
- 8. Describe the internal structure of *Lycopodium* stem giving different types of steles found in it. (14)

Paper Code: 1185

Programme	Exam Code	Course Code
Bachelor of Science (Medical)	121301	BSML-1084
Bachelor of Science (Non- Medical)		BSNL-1084

Semester- I**Course Title: Chemistry (Inorganic Chemistry – I)****(50)****Time Allowed: 3 Hours****Max Marks: 70**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Use of simple calculators is allowed. Each question carries 14 marks.

Section-A

- Derive the Schrodinger wave equation for an electron moving in three dimensions. 14
 - Show diagrammatically/graphically how many nodes are present in each of the following orbitals:
 (i) 3s (ii) 2p
 (iii) 3d (iv) 4f (7, 7)
- What is electronegativity? Discuss the factors which affect electronegativity and give its variation in a period and in a group in the periodic table. (7, 7)
 - What is effective nuclear charge? Write electronic configuration of Fe atom ($Z = 26$) and calculate

screening constant and effective nuclear charge for its 4s and 3d electron. (7, 7)

Section-B

3. a) Draw MO diagram of CO and show its bond order. Compare the bond length of CO with that of CO^+ .
b) Explain the structure of PF_5 molecule on the basis of VBT and hybridization. (7, 7)
4. (a) Draw and discuss the structures of zinc blende and wurtzite. Show the coordination around each type of ion in these structures? What is the basic difference in these two types of structures?
(b) Construct the Born-Haber cycle for the formation of NaCl. How does it explain the stability of ionic compounds? (7,7)

Section-C

5. (a) Why N_2 is a gas but P_4 is a solid.
(b) Why oxygen is a diatomic molecule whereas sulphur is octa atomic?
(c) Explain Inert Pair Effect. Why +1 oxidation state becomes more stable from B to Tl. (4,4,6)
6. (a) Why Carbon has greater catenation tendency than Si? Explain.
(b) Discuss solvent system concept of acids and bases with suitable examples. (7, 7)

Section-D

7. (a) $\text{N}(\text{CH}_3)_3$ is pyramidal, but $\text{N}(\text{SiH}_3)_3$ is trigonal planar in shape. Explain?
(b) What do you understand by back bonding? Explain why it occurs in boron halides but not in aluminium halides? (7, 7)
8. (a) Give reason Why CCl_4 cannot hydrolysed by water under normal conditions, but SiCl_4 are easily hydrolysed.
(b) Compare the structure of CO_2 and SiO_2 . (7, 7)

Paper Code: 9113

Programme	Exam Code	Course Code
Bachelor of Science (Medical)	121301	BSML-1084
Bachelor of Science (Non- Medical)		BSNL-1084

Semester- I

Course Title: Chemistry (Inorganic Chemistry – I) Atomic
Structure and Periodic Table)

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Use of simple calculators is allowed. Each question carries 14 marks.

Section-A

- Derive the Schrodinger wave equation for an electron moving in three dimensions. 14
 - Show diagrammatically/graphically how many nodes are present in each of the following orbitals:
 (i) 3s (ii) 2p
 (iii) 3d (iv) 4f (7, 7)
- What is electronegativity? Discuss the factors which affect electronegativity and give its variation in a period and in a group in the periodic table. (7, 7)
 - What is effective nuclear charge? Write electronic configuration of Fe atom ($Z = 26$) and calculate

screening constant and effective nuclear charge for its 4s and 3d electron. (7, 7)

Section-B

3. a) Draw MO diagram of CO and show its bond order. Compare the bond length of CO with that of CO^+ .
b) Explain the structure of PF_5 molecule on the basis of VBT and hybridization. (7, 7)
4. (a) Draw and discuss the structures of zinc blende and wurtzite. Show the coordination around each type of ion in these structures? What is the basic difference in these two types of structures?
(b) Construct the Born-Haber cycle for the formation of NaCl. How does it explain the stability of ionic compounds? (7, 7)

Section-C

5. (a) Why N_2 is a gas but P_4 is a solid.
(b) Why oxygen is a diatomic molecule whereas sulphur is octa atomic?
(c) Explain Inert Pair Effect. Why +1 oxidation state becomes more stable from B to Tl. (4, 4, 6)
6. (a) Why Carbon has greater catenation tendency than Si? Explain.
(b) Discuss solvent system concept of acids and bases with suitable examples. (7, 7)

Section-D

7. (a) $\text{N}(\text{CH}_3)_3$ is pyramidal, but $\text{N}(\text{SiH}_3)_3$ is trigonal planar in shape. Explain?
(b) What do you understand by back bonding? Explain why it occurs in boron halides but not in aluminium halides? (7, 7)
8. (a) Give reason Why CCl_4 cannot hydrolysed by water, under normal conditions, but SiCl_4 are easily hydrolysed.
(b) Compare the structure of CO_2 and SiO_2 . (7, 7)

Exam Code: 121301
(50)

Paper Code: 1184

Programme: Bachelor of Science
Semester-I

Course Title: Zoology (Diversity of Nonchordates – I
(Protozoa- Annelida)

Course Code: BSML-1483 ✓

Time Allowed: 3 Hours

Max Marks: 70

Note: Attempt one question from each section and fifth question from any section. Each question carries equal marks. Draw neat and well labelled diagrams wherever required.

Section A

1. Discuss the Asexual reproduction in Amoeba. 14
2. Explain following in Plasmodium
a) Schizogony 7
b) sporogony 7

Section B

3. Describe the canal system of Sycon with the help of well labelled diagrams. 14

4. Give an account of the polymorphism in *Obelia*. 14

Section C

5. Describe the life history of *Fasciola hepatica*. 14
6. Describe following system of *Taenia solium*.
- a) Nervous system 7
- b) Excretory system 7

Section D

7. Explain reproductive system of *Ascaris*. 14
8. Give a brief account of excretory system of Earthworm with the help of well labelled diagrams. 14

Programme: Bachelor of Science (Semester-I)

Course Title: Botany (Diversity of Microbes)

Course Code: BSMM-1075 (I)

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 8 marks. Draw labelled diagrams wherever necessary.

Section-A

- 1 Describe important features and life cycle of *Volvox*. 8
- 2 Describe important features and life cycle of *Polysiphonia*. 8

Section-B

- 3 Give detailed account of reproduction and economic importance of Bacteria. 8
- 4 Give a detailed account of general characters of Viruses. 8

Section-C

- 5 Write details about the important characters and life cycle of *Phytophthora*. 8
- 6 Describe economic importance of Fungi. 8

Section-D

- 7 Give general characteristics of Lichens. 8
- 8 Describe characters of following:
 - a. Teleutospores of *Puccinia* 4
 - b. Red rot of sugarcane 4

(For Reappear Candidates (Old Syllabus 2023-2024))

Exam Code: 121301

Paper Code: 9141

Programme: Bachelor of Science (Semester-I)

Course Title: Botany (Diversity of Cryptogams)

Course Code: BSMM-1075 (II)

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 12 marks. Draw labelled diagrams wherever necessary.

Section-A		
1	Give general characteristic features of Bryophytes.	12
2	Write short notes on the following:	4
	i. Bryophytes are known as amphibians of plant kingdom.	4
	ii. Alteration of generations.	4
	iii. Name the smallest and largest genera of Bryophyta.	4
Section-B		
3	Describe briefly about the morphology and internal structure of <i>Marchantia</i> thallus.	12
4	Describe the following:	4
	i. Thallus structure (morphological and anatomical) of <i>Anthoceros</i> .	4
	ii. <i>Anthoceros</i> is called as Hornworts	4
	iii. Capsule of <i>Funaria</i>	4
Section-C		
5	Discuss general characters of Pteridophytes.	12
6	Write short notes on the following:	4
	i. Heterospory and homospory.	4
	ii. Eusporangiate and leptosporangiate development of sporangia.	4
	iii. Morphology and anatomy of <i>Rhynia</i> .	4
Section-D		
7	Describe the various types of steles found in different species of <i>Lycopodium</i> .	12
8	Write short notes on the following:	5
	i. Xerophytic as well as aquatic character of <i>Equisetum</i>	5
	ii. Morphological features of <i>Selaginella</i> .	5
	iii. Sporangial dehiscence in <i>Pteris</i> .	2

Exam Code: 121301

Paper Code: 9145

Programme: Bachelor of Science (Semester: I)

Course Title: Chemistry (Inorganic Chemistry)

Course Code BSMM/BSNM-1084 (I)

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 08 marks. Use of simple calculators is allowed.

Section-A

1. a) Derive the Schrodinger wave equation for an electron moving in three dimensions. (6)
- b) Explain Aufbau Principle with the help of examples. (2)
2. a) What are quantum numbers? Explain in detail. (6)
- b) Distinguish between orbit and orbital. (2)

Section-B

3. What is Electron affinity? On what factors does it depend? How does the electron affinity of the elements vary as we move down a group and along a period? (8)
4. a) Define electronegativity. Discuss Pauling's scale of electronegativity. (4)
- b) Explain the following: (4)
 - (i) Electron affinity of halogens is highest in their respective periods.
 - (ii) Second ionization energy of Na is higher than Mg.

Section-C

5. a) Give one preparation of diborane. Discuss the structure and mode of bonding in diboranes. (4)
- b) Compare the bond orders of CN and CN⁻ on the basis of MO theory. (4)
6. What do you mean by the term hybridization? What are the characteristics and conditions for it? Explain the shapes of PF₅ and XeF₄ using the concept of hybridization. (8)

Section-D

7. a) Draw and discuss the structure of Cesium chloride. (4)
- b) Write differences between Schottky and Frenkel defects. (4)
8. a) Construct the Born-Haber cycle for the formation of NaCl. How does it explain the stability of ionic compounds? (6)
- b) Which among ortho-nitrophenol and para-nitrophenol has higher boiling point and why? (2)

For Reappear Candidates (Session-2023-24)

Exam Code: 121301

Paper Code: 9144

Bachelor of Science (Semester-I)
 Course Title: Chemistry (Organic Chemistry)
 Course Code: BSMM-1084(II)

Max Marks: 60

Time Allowed: 3 Hours

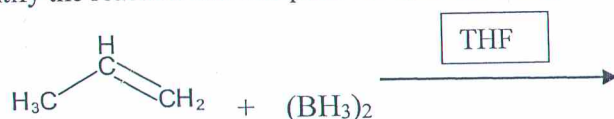
Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 12 marks.

Section-A

- (a) Compare singlet and triplet carbenes. Explain why triplet carbenes are more stable than singlet carbenes, with a detailed discussion of their orbital structures (6)
 (b) How does resonance help in explaining the following: (6)
 (i) Relative acid strength of phenols and alcohols
 (ii) Aniline is weaker base than ammonia
- (a) Give the main points of difference between inductive effect and electromeric effect. (6)
 (b) Draw the orbital diagram of ethane, ethene and ethyne indicating the hybridization involved and nature of bonds formed. (6)

Section-B

- (a) Dehydration of 1-butanol and 2-butanol give the same mixture of alkenes. (6)
 (b) Discuss the mechanism of hydrogenation of alkenes and explain how heat of hydrogenation can be used to explain the stability of alkenes. (6)
- (a) Explain the Wurtz reaction and its mechanism. Can this method be used for synthesizing unsymmetrical alkanes? If not, provide a reason for its unsuitability. (6)
 (b) Identify the reaction and complete the reaction with mechanism.



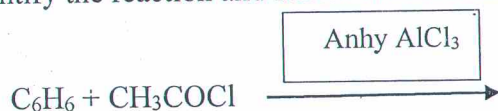
(6)

Section-C

- (a) Discuss Baeyer's strain theory in brief. How it is used to explain the reactivity of cyclopropane and cyclobutane rings? Also, discuss the limitations of this theory. (6)
 (b) Differentiate between $\text{S}_\text{N}1$ and $\text{S}_\text{N}2$ reactions. (6)
- (a) Give benzyne mechanism of aryl halides taking the example of conversion of chlorobenzene into aniline. (6)
 (b) Give a brief explanation of the Sachse-Mohr theory of strainless rings. How does this theory explain the stability of cycloalkanes with six or more carbon atoms? (6)

Section-D

- (a) What are aromatic, anti-aromatic and non-aromatic compounds? Give one example in each case. (6)
 (b) Identify the reaction and sketch the mechanism of the following reaction (6)



- (a) What is directive influence of group. Explain why Cl is ortho-para directing group in electrophilic aromatic substitution reaction. (6)
 (b) What do σ and π complexes refer to? How do they contribute to aromatic electrophilic substitution reactions? Explain with the help of an energy profile diagram. (6)

(For Reappear Candidates (2023-2024))

Exam Code: 121301

Paper Code: 9143

Programme: Bachelor of Science (Semester-I)

Course Title: Zoology (Cell Biology)

Course Code: BSMM-1483 (I)

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 08 marks. Draw labelled diagrams wherever necessary.

Section-A

1. Write about components and working of light microscope and electron microscope. 8
2. What is fixation? Explain different types of fixation and factors affecting it. 8

Section-B

3. Write a note on fluid mosaic model of plasma membrane. 8
4. Discuss the structure and function of mitochondria. 8

Section-C

5. Discuss the polymorphism and functions of Lysosomes. 8
6. Write a note on Ribosomes. 8

Section-D

7. Discuss various causes and treatment methods of Cancer 8
8. Give an account of cell mediated immune system. 8

(For Reappear Candidates (2023-2024))

Exam Code: 121301

Paper Code: 9142

Programme: Bachelors of Science (Semester-I)

Course Title: Zoology (Biodiversity-I)

Course Code: BSMM-1483 (II)

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 12 marks. Draw labelled diagrams wherever necessary.

Section-A

1. Discuss the Conjugation in Paramecium. 12
2. Explain different phases in life cycle of Plasmodium 12

Section-B

3. Describe the canal system of Sycon with the help of well labelled diagrams. 12
4. Give an account of polymorphism in Obelia. 12

Section-C

5. Describe the nervous system of *Fasciola hepatica*. 12
6. Describe male and female reproductive system of *Taenia solium*. 12

Section-D

7. Explain morphology and physiology of digestive system of Ascaris. 12
8. Give a brief account of reproductive system of Earthworm with the help of well labelled diagrams. 12

Paper Code: 1187

Programme	Exam Code	Course Code
Bachelor of Science (Non-Medical)	121301	BSNL-1395 ✓
Bachelor of Science (Computer Science)		BCSL-1395 ✓

Semester- I

Course Title: Physics (Electricity and Magnetism)
(50)

Time Allowed: 3 Hours**Max Marks: 70**

Note:- Attempt 5 questions selecting one from each section. The 5th question can be attempted from any section. All questions carry equal marks.

Section A

- (a) Show that the electric field due to an electric dipole at a point on the axial line is twice the electric field on the equatorial line. 10

(b) If $\phi = e^{xyz}$, calculate the gradient of ϕ at the point (1,1,1). 4
- (a) State and prove the Gauss divergence theorem. 7

(b) Determine the electric field due to uniformly charged infinite sheet. 7

Section B

3. (a) State and prove Stoke's theorem. 10
 (b) Electric potential at a point is given by $V = x^2y + 2z$. what are the components of electric field at that point? 4
4. Determine the electric potential due to an arbitrary charge distribution and express it in terms of multipole moments. 14

Section C

5. What is electric image? Find the electric potential and electric field due to a point charge placed near an infinitely conducting sheet. 14
6. (a) Distinguish between current and current density. Derive a relation which connect them. 4
 (b) Derive the continuity equation. What form will it take for steady current? 6
 (c) Discuss limitations of Ohm's law. 4

Section D

7. Derive the expressions for
 (a) Differential form of Ampere's law for magnetic materials. 7
 (b) Integral form of Ampere's law for magnetic materials. 7
8. Explain diamagnetism on the basis of orbital motion of electrons and derive the magnetic moment. 14

(For Reappear Candidates Only (2023-24))

Exam Code: 103301

Paper Code: 9111

Bachelor of Science (Semester-I)
 Course Title: Mathematics (Algebra)
 Course Code: BSNM/ BCSM-1333 (I)

Time Allowed: 3 Hours

Max. Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 16 marks.

Section – A

1 (a) Check the linear dependence or linear independence of the following vectors

$$u = (2, 3, 1), v = (-1, 4, 2), w = (1, 18, -4) \quad (8)$$

(b) Find the matrices P and Q such that PAQ is in the normal form, Where A is the matrix

$$A = \begin{bmatrix} 1 & -1 & 2 & -1 \\ 4 & 2 & -1 & 2 \\ 2 & 2 & -2 & 0 \end{bmatrix} \quad (8)$$

2 (a) Find the column rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 & 1 \\ 2 & 4 & 6 & 2 \\ 1 & 2 & 3 & 2 \end{bmatrix}$ (8)

(b) Test for consistency

$$2x + 3y + z = 9$$

$$x + 2y + 3z = 6$$

$$3x + y + 2z = 8$$

If consistent, solve for x, y, z by finding the inverse of the coefficient matrix. (8)

Section – B3 (a) State and prove Cayley – Hamilton Theorem. (8)

(b) Determine the characteristic roots and characteristic vectors of the matrix

$$\begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix} \quad (8)$$

4 (a) Considering the linear transformations

$$y_1 = 2x_1 - 3x_2 + 4x_3$$

$$y_2 = x_1 + x_2 + x_3$$

$$y_3 = 3x_1 - 2x_2 + 4x_3$$

And $z_1 = y_1 + y_2 - y_3$

$$z_2 = 2y_1 - y_2 + 0y_3$$

$$z_3 = y_1 - y_2 + 2y_3$$

Find the matrix of the resultant linear transformation. (8)

(b) Find the characteristic equation and minimal equation of the matrix

$$A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix} \quad (8)$$

Section – C

5 (a) Reduce the following quadratic form to canonical form and find the rank and index.

$$2x^2 + 2y^2 + 3z^2 + 2xy - 4yz - 4xz \quad (8)$$

(b) Show that the form $x_1^2 + 2x_2^2 + 3x_3^2 + 2x_2x_3 - 2x_3x_1 + 2x_1x_2$ is indefinite and find two set of values of x_1, x_2, x_3 , for which the form assumes positive and negative values. (8)

6 (a) Define congruent matrices and explain its fundamental properties. (8)

(b) Reduce the following symmetric matrix to a diagonal form and interpret the result in terms of quadratic form:

$$A = \begin{bmatrix} 1 & 2 & -1 \\ 2 & 0 & 3 \\ -1 & 3 & 1 \end{bmatrix} \quad (8)$$

Section – D

7 (a) Solve the equation $x^4 + x^2 - 2x + 6 = 0$ by Descartes' method. (8)

(b) Solve the following by Newton's method of divisor:

$$x^3 - 5x^2 - 2x + 24 = 0 \quad (8)$$

8 (a) The ratio of the two roots of the equation $x^4 - 12x^3 + 47x^2 - 72x + 36 = 0$ is equal to the ratio of the other two. Solve the equation. (8)

(b) Find the equation whose roots exceed by 2 the roots of the equation $4x^4 + 32x^3 + 83x^2 + 76x + 21 = 0$. Hence find the roots of the equation. (8)

(For Reappear Candidates Only (2023-24))

Exam Code: 103301

Paper Code: 9112

Bachelor of Science (Semester-I)
 Course Title: Mathematics (Calculus and Trigonometry)
 Course Code: BSNM/ BCSM-1333 (II)

Time Allowed: 3 Hours

Max. Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 12 marks.

Section-A

- 1 (a) Prove that $\sqrt{2}$ is not a rational number (6)
 (b) Solve the inequality: $\frac{x}{x-1} \geq \frac{1}{4}$ (6)
 2 (a) Show that $\lim_{x \rightarrow 0} \sin \frac{1}{x}$ does not exist (6)
 (b) Show that $f(x) = x^3 + 1$ is uniform continuous in closed interval $[0,1]$ (6)

Section -B

- 3 (a) State and Prove Taylor's Theorem (6)
 (b) Use Taylor's theorem to express the polynomial $2x^3 + 7x^2 + x - 6$ in powers of $(x - 2)$ (6)
 4 (a) If $x = a \cos \theta + b \sin \theta$ and $y = a \sin \theta - b \cos \theta$, prove that $y^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = 0$. (6)
 (b) Evaluate $\lim_{x \rightarrow 0} \left(\frac{\sin x}{x} \right)^{\frac{1}{x^2}}$ (6)

Section-C

- 5 (a) If $z = \cos \theta + i \sin \theta$, prove that $\frac{z^{2n}-1}{z^{2n}+1} = i \tan n\theta$ (6)
 (b) Show that each primitive 6th root of unity satisfies $z^2 - z + 1 = 0$ (6)
 6 (a) Expand $\sin 5\theta$ in terms of Sine and Cosine of an angle θ (6)
 (b) If $\sin \varphi = i \tan \theta$, prove that $\cos \theta + i \sin \theta = \tan \left(\frac{\pi}{4} + \frac{\varphi}{2} \right)$ (6)

Section-D

- 7 (a) Separate $\tan^{-1}(x + iy)$ into real and imaginary parts. (6)
 (b) Find all the roots of the equation $\cosh z = \frac{1}{2}$ (6)
 8 (a) Sum the series upto n terms $\tan^{-1} \frac{1}{3} + \tan^{-1} \frac{2}{9} + \tan^{-1} \frac{4}{33} + \dots$ and deduce the sum upto infinity (6)
 (b) Sum the series upto infinity $\cos \theta - \frac{1}{2} \cos 2\theta + \frac{1}{3} \cos 3\theta + \dots$ (6)

(For Reappear Candidates Only (2023-24))

Exam Code: 121301

Paper Code: 9109

Programme: Bachelor of Science (Semester-I)

Course Title: Physics (Mechanics)

Course Code: BSNM/BCSM-1395 (I)

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 12 marks. Use of Non-Scientific calculators and logarithmic tables is allowed.

Section-A

1. Define spherical polar coordinates? In what kind of problems, we prefer spherical polar coordinate system. Find the expressions for unit vectors in spherical polar coordinate system. (12)
2. (a) Define solid angle and find the solid angle subtended by the surface of sphere at its center. (6)
(b) If the Cartesian coordinates of a point are (1,-1,1). Find the spherical polar coordinates of that point. (3)
(c) Prove that $\hat{r}$ and $\hat{\phi}$ are orthogonal unit vectors? (3)

Section-B

3. State and prove Kepler's laws of planetary motion. (12)
4. Prove that total energy and angular momentum of a body moving under a central force are always conserved. (12)

Section-C

5. Find the equation of trajectory of the bob of Foucault's pendulum in horizontal plane and also find the time period of rotation of plane of oscillations? (12)
6. (a) Find expressions for horizontal and vertical accelerations on a particle moving on surface of earth at latitude λ in northern hemisphere due to rotation of earth. (8)
(b) Explain the formation of cyclones and trade winds? (4)

Section-D

7. What do you mean by differential and total cross-section of elastic scattering? Find the relationship between impact parameter and differential cross-section. (12)
8. Derive the Euler's equations for torque acting of a rigid body about principal axes in terms of principal moments of inertia. (12)

Exam Code: 121301

(For Reappear Candidates Only (2023-24))

Paper Code: 9110

Programme: Bachelor of Science (Semester-I)
 Course Title: Physics (Electricity and Magnetism)
 Course Code: BSNM/BCSM-1395 (II)

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 08 marks. Use of Non-Scientific calculators and logarithmic tables is allowed.

Section A

1. (a) Define gradient of a scalar function. Show that the magnitude of gradient of V is equal to maximum rate of change of V . 4
 (b) Define line integral of a vector field $\vec{A}$. Show that the line integral of vector field $\vec{A}$ is independent of the path if the vector field $\vec{A}$ is conservative. 4
2. (a) A semicircular wire with radius "a" and has linear charge density λ . Calculate the electric field produced by this charge distribution at the centre of curvature of wire. 6
 (b) If $\phi = e^{xyz}$, calculate the gradient of ϕ at the point (1, -1, 1). 2

Section B

3. Show that the potential due to uniformly charged ring of radius a at any point on its axis is 8

$$V = \frac{Q}{4\pi\epsilon_0\sqrt{z^2+a^2}}$$

4. Show that the potential due to electric dipole, having dipole moment $\vec{p}$ and located at the origin, at any point is

$$V = \frac{\vec{p} \cdot \vec{r}}{4\pi\epsilon_0 r^3} \quad \text{8}$$

Section C

5. A charge is situated at a distance d from an infinite conducting sheet maintained at zero potential in the x - y plane. The source charge lies in the region $z > 0$. Using method of images, find electric field at any point in the $z > 0$. 8
6. (a) A wire is connected across an ammeter. Why does not it show any current even though the wire contains large number of moving free electrons? 3
 (b) State the condition under which the conductivity of the material depends on the electric field. 3
 (c) In a certain material the drift velocity of electrons is a quadratic function of electric field. Will the material be ohmic or non-ohmic? 2

Section D

7. Derive an expression for the magnetic moment induced in an electron of an atom when diamagnetic material is placed in a uniform magnetic field. 8
- 8 (a) The magnetic induction and magnetic intensity in a piece of magnetic material are $1.0\hat{j}$ Wb/m² and $2 \times 10^3\hat{j}$ A/m respectively. Find (a) magnetization (b) magnetic susceptibility (c) relative permeability of material. Given $\mu_0 = 12.57 \times 10^{-7}$ N/A². 6
 (b) Explain ferromagnetism on the basis of domain theory. 2