

**Exam Code: 121304
(20)**

Paper Code: 4184

**Programme: Bachelor of Science
Semester-IV**

**Course Title: Botany (Diversity of Seed Plants and their
Systematics-I)**

Course Code: BSMM-4075 (I) ✓

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 equal (8) marks.

Section A

1. Write a detailed account on the evolution of the seed habit.
2. Write down the distinguishing features of Angiosperms and Gymnosperms.

Section B

3. What do you understand by the term fossilisation? Explain it in detail.
4. Describe in detail the classification of Gymnosperms.

Section C

5. Draw internal structure of Cycas leaflet. Give its distinguishing features. What is the function of transfusion tissue?
6. Write in detail about the anatomy of stem and leaf of Pinus.

Section D

7. Draw a neat diagram showing anatomy of Ephedra stem and explain.
8. Give details of morphology and reproductive parts of Ginkgo.

Exam Code: 121304
(20)

Paper Code: 4185

Programme: Bachelor of Science
Semester-IV

Course Title: Botany (Diversity of Seed Plants and their
Systematics-II)

Course Code: BSMM-4075 (II) ✓

Time Allowed: 3 Hours

Max Marks: 60

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 (12). Draw well labelled diagrams wherever necessary.

Section A

1. Describe following terms:
 - a. Dichotomous Key
 - b. Omega Taxonomy
2. Describe International Code of Botanical Nomenclature.

Section B

3. Explain salient features of Engler and Prantl's system of classification and discuss its merits.

4. What is numerical taxonomy? Discuss the role of numerical taxonomy in relation to taxonomy.

Section C

5. Enumerate diagnostic features of the following families:
 - a. Fabaceae
 - b. Brassicaceae
6. Give the salient feature of family Rutaceae.

Section D

7. Describe floral characteristics of family Solanaceae.
8. Give comparative account of floral characteristics of family Lamiaceae and Orchidaceae.

Bachelor of Science Semester-IV

Course Title: Food Science and Quality Control (Vocational) (Quality Assurance)

Course Code: BSMM-4255 ✓

Time Allowed: 3 Hours

Max. Marks: 60

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 12 marks.

Section-A

Ques 1) Discuss the importance of quality control in food and what are the various quality testing parameters for a food quality testing, explain in detail.

Ques 2) What are the major attributes tested for food quality and discuss major testing methods for finished products.

Section-B

Ques 3) Explain in detail the quality testing methods in dairy products.

Ques 4) Describe in detail about textural properties of wheat dough in reference to bakery products.

Section-C

Ques 5) Discuss in detail the importance of food sampling. What are the major sampling methods used in food industries.

Ques 6) Discuss the new advancements and approaches in sensory analysis of food products.

Section-D

Ques 7) Explain the role of HAACCP in food safety and analysis.

Ques 8) Discuss major Food regulatory agencies in India.

Exam Code: 121304
(20)

Paper Code: 4179

Programme: Bachelor of Science
Semester-IV

Course Title: Microbiology (Microbial Ecology)

Course Code: BSMM-4343

Time Allowed: 3 Hours

Max Marks: 60

Note-Attempt five questions in all, selectin one question from each of the four section(A-D). The fifth question may be attempted from any section. Each question carries (12) marks.

Section-A

1. a. Briefly discuss the effect of chemical factor on the diversity of microbes in a particular habitat. 6
b. Define the following terms: Ecological niche, Microbial ecology. 6
2. a. Discuss in detail how microorganisms are able to survive in different terrestrial habitats. 6
b. Write a short note on different type of microorganisms present in aquatic environment. 6

Section B

3. a. Giving examples discuss symbiotic relationship among microorganisms. 6
b. Write a short note on negative interactions among microorganisms. 6
4. a. Briefly discuss competition among microorganisms for requirement of oxygen and space for survival in nature. 6
b. List different types of microbial interactions, discuss any two of them detail. 6

Section C

5. a. Explain the role played by microorganisms in Carbon cycle. 6
b. Discuss the advantages of using Biofertilizers over Chemical fertilizers. 6
6. a. Write a short note on sulphur cycle. 6
b. Giving examples explain the use of fungi as bioinsecticides. 6

Section D

7. a. Explain how Activated Sludge Process is involved in secondary treatment of Waste Water. 6

- b. Giving examples discuss the role of microorganisms in
bioleaching of metals. 6
8. a. Differentiate between BOD and COD. 6
- b. Write a short note on 'In situ bioremediation. 6

Exam Code: 121304
(20)

Paper Code: 4177

Programme: Bachelor of Science
Semester-IV

Course Title: Zoology (Biochemistry)

Course Code: BSMM-4483 (I) 

Time Allowed: 3 Hours

Max Marks: 40

Note: Attempt five questions in all, selecting one question from each section (A to D). Fifth question can be attempted from any section. Each question carries equal marks.

Section A

1. Give classification and functions of carbohydrates.
2. Justify the statement "DNA is the genetic material".

Section B

3. a) Enlist various characteristics of enzymes.
b) Give an account of lock and key hypothesis.
4. Describe β —oxidation of fatty acids.

Section C

5. Discuss Hexose monophosphate shunt.
6. Write a note on glycolysis.

Section D

7. Define oxidative deamination and transamination.
8. Discuss the steps involved in production of urea from ammonia.

Exam Code: 121304
(20)

Paper Code: 4178

Programme: Bachelor of Science
Semester-IV

Course Title: Zoology (Animal Physiology)

Course Code: BSMM-4483 (II)

Time Allowed: 3 Hours

Max Marks: 60

Attempt five questions in all. Select at least one question from each section (A to D) respectively. Fifth question may be attempted from any section (A-D). Write legibly and Draw well labeled diagrams wherever necessary. Each question carries 12 marks.

Section-A

1. Discuss the mechanism of digestion of Proteins in the human alimentary canal.
2. Explain briefly:
 - (a) Oxygen dissociation Curve of Haemoglobin
 - (b) Mechanism of Absorption of digested fats

Section-B

3. Discuss the mechanism of origin, conduction, and regulation of Heart beat.

4. a. Give the mechanism of Blood Clotting.
b. Explain the process of tubular reabsorption by Nephron.

Section-C

5. Discuss the structure of Sarcomere and explain the 'sliding filament theory of muscle contraction.
6. Explain the mechanism of origin and conduction of nerve impulse along the nerve fiber.

Section-D

7. a. What do you mean by reflex action arc? How reflex are different from taxes.
b. Explain the mechanism of motivational and instinctive learning.
8. Describe the structural details of Adrenal gland along with its endocrine physiology.

Paper Code: 4181

Programme	Exam Code	Course Code
Bachelor of Science (Medical)	121304	BSMM-4084 (II)
Bachelor of Science (Non-Medical)	121304	BSNM-4084 (II)

Semester-IV

Course Title: Chemistry (Organic Chemistry)
(40)

Time Allowed: 3 Hours

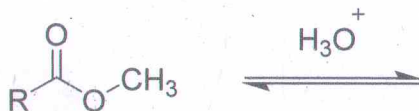
Max Marks: 40

Instructions: 1) The students are allowed to use Non-Programmable Calculator.

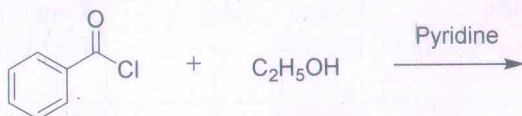
2) Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A

1. (a) Out of o-hydroxybenzoic acid and 2,6-dihydroxybenzoic acid, which one is more acidic and why? 2
- (b) Explain the mechanism of acid chloride formation from carboxylic acids using thionyl chloride. 2
- (c) Predict the product formation with reaction mechanism in the following: 4



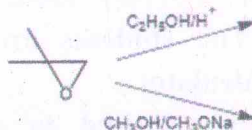
2. (a) What product will form in the following reaction?
Explain with reaction mechanism. 4



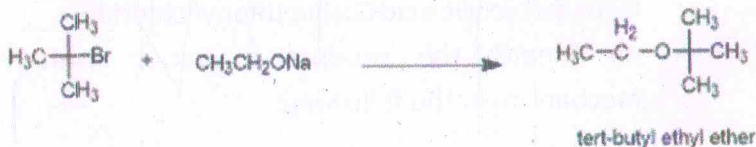
- (b) Explain the mechanism of transesterification under acidic condition mechanism by citing a suitable example. 4

Section B

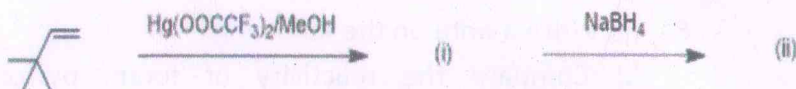
3. (a) Predict the product in the following reaction:



- (b) Why is the following reaction a poor method for the synthesis of tert-butyl propyl ether? What would be the major product from this reaction? Suggest a better reaction scheme for the synthesis of tert-butyl propyl ether. 4



(c) Write the missing products in the following reaction scheme: 2



4. (a) Explain two methods for the synthesis of epoxides. 4

(b) Write a note on the autoxidation of ethers. 4

Section C

5. (a) Explain the following reactions:

(i) Reductive amination of aldehydes

(ii) Hofmann bromamide reaction 6

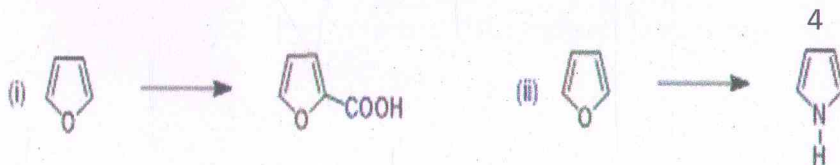
(b) Explain how using amine salts work as a phase transfer catalyst? 2

6. (a) Explain how resonance and hybridization affect the basicity of amines? Give suitable examples. 4

(b) Describe how primary, secondary and tertiary amines can be distinguished from one another. 4

Section D

7. (a) How would you carry out the following conversions? 4



(b) Why electrophilic aromatic substitution in furan takes place at 2-position rather than 3-position?

8. (a) Write a note on the following:

(i) Compare the reactivity of furan, pyrrole, and thiophene in electrophilic substitutions.

(ii) Why nucleophilic substitution reactions in pyridine are less favorable at the 3-position? 5

(b) Give one method for the synthesis of pyrrole and thiophene. 3

Exam Code: 121304

Paper Code: 9405

Programme: Bachelor of Science (Semester-IV)

Course Title: Chemistry (Organic Chemistry)

Course Code: BSMM/BSNM-4084(II)

Time Allowed: 3 Hours

Max Marks: 30

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

Section-A

- Q:1 a) Discuss the effect of electron-withdrawing and electron-donating substituents on the acidity of carboxylic acids. (3)
b) Compare the stability and reactivity of various acyl derivatives with suitable examples. (3)
- Q:2 (a) Explain one method of the synthesis and reduction of acid chlorides with suitable example. (3)
(b) Write the mechanism of the Hell-Volhard-Zelinsky reaction. What is its synthetic importance? (3)

Section-B

- Q:3 (a) Describe the synthesis of ethers using Williamson synthesis. Explain limitations, if any. (3)
(b) What is Zeisel's method? How is it used to estimate methoxy groups? (3)
- Q:4 (a) Explain the acid catalyzed ring opening of epoxides with mechanisms. (3)
(b) Explain the reactions of epoxides with Grignard reagents with suitable example. (3)

Section-C

- Q:5 (a) Discuss the reaction and mechanism of Gabriel-phthalimide reaction. (3)
(b) How do you explain the observation that in contrast to arenes, nitration of alkanes does not takes place easily. (3)
- Q:6 (a) Describe the methods of preparation of amines by reductive amination of aldehydes and ketones. (3)
(b) What are phase transfer catalysts? Explain the use of quaternary ammonium salts in organic synthesis. (3)

Section-D

- Q:7 (a) How are Grignard reagents prepared? Discuss their structure and reactivity. (3)
(b) Discuss the structure and aromaticity of pyrrole, furan, thiophene, and pyridine (3)
- Q:8 (a) Describe any two chemical reactions of Organolithium reagents with suitable examples. (3)
(b) Discuss the nucleophilic substitution mechanism in pyridine. Why does it occur at the 2- and 4-positions? (3)

Paper Code: 4180

	Exam Code	Course Code
l)	121304	BSMM-4084 (I)
Medical)	121304	BSNM-4084 (I)

Semester-IV

Title: Chemistry (Inorganic Chemistry)

(40)

Max Marks: 60

Required to attempt five question in all, selecting at least one
The fifth question may be attempted from any section. Each

Section-A

of:

and theory account for the fact that $[\text{CoF}_6]^{3-}$ is paramagnetic whereas
although both $[\text{CoF}_6]^{3-}$ as well as $[\text{Co}(\text{NH}_3)_6]^{3+}$ are octahedral ?

chemistry of liquid ammonia as a solvent.
reactions in liquid sulphur dioxide:

Section-B

by redox stability in water ?
for the common oxidation states of Iron.

Section-D

two Oxygen carriers and elaborate their importance in biological

role of Ca^{2+} ions.

energy-rich molecule? Discuss the structure of ATP and its hydrolysed

of cooperativity in Hb.

CANDIDATES ONLY (2022-23), (2023-24).

Paper Code: 9404

	Exam Code	Course Code
)	121304	BSMM-4084 (I) ✓
Medical)	121304	BSNM-4084 (I) ✓

Semester-IV

Title: Chemistry (Inorganic Chemistry)
(40)

Max Marks: 30

red to attempt five question in all, selecting at least one
The fifth question may be attempted from any section. Each

Section-A

of:

theory account for the fact that $[\text{CoF}_6]^{3-}$ is paramagnetic whereas
although both $[\text{CoF}_6]^{3-}$ as well as $[\text{Co}(\text{NH}_3)_6]^{3+}$ are octahedral?

stry of liquid ammonia as a solvent.
ons in liquid sulphur dioxide:

Section-B

y redox stability in water?
for the common oxidation states of Iron.

Section-D

Two Oxygen carriers and elaborate their importance in biological

role of Ca^{2+} ions.

energy-rich molecule? Discuss the structure of ATP and its hydrolysed

of cooperativity in Hb.

Paper Code: 4102

Programme	Exam Code	Course Code
Bachelor of Arts	121204	BARL-4031 ✓
Bachelor of Science (Non-Medical)	121304	BSNL-4031 ✓
Bachelor of Science (Medical)		BSML-4031 ✓
Bachelor of Science (Economics)		BECL-4031
Bachelor of Science (Computer Science)		BCSL-4031 ✓
Bachelor of Commerce	121104	BCRL-4031
Bachelor of Business Administration	121704	BBRL-4031

Semester- IV

Course Title: Basic Punjabi

(40)

Time Allowed: 3 Hours

Max Marks: 80

ਨੋਟ: ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹਨ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ, ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ (16) ਅੰਕ ਹਨ।

ਭਾਗ-ਪਹਿਲਾ

1. ਹੇਠ ਲਿਖੀਆਂ ਕਾਵਿ-ਸਤਰਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ।
ਕਮਦਿਲਾਂ ਨੂੰ ਦਿਲ, ਨਪਰਿਆਂ ਪਰ ਦਈਂ।

ਯਾ ਖੁਦਾ ਸਭ ਬੇ-ਘਰਾਂ ਨੂੰ ਘਰ ਦਈਂ।
ਹਰ ਸੁਹਾਗਣ ਦਾ ਰਹੇ ਜ਼ਿੰਦਾ ਸੁਹਾਗ
ਉਮਰ ਲੰਘਦੀ ਜਾ ਰਹੀ ਨੂੰ ਵਰ ਦਈਂ
ਤੋਤਲੇ ਬੋਲਾਂ ਦਾ ਰਾਖਾ ਖੁਦ ਬਣੀ,
ਖੌਫ ਹਰ ਕਾਤਿਲ ਤੇ ਸੀਨੇ ਭਰ ਦਈਂ।

2. ਹੇਠ ਲਿਖੀਆਂ ਕਾਵਿ-ਸਤਰਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ।
ਹੁਣ ਘਰਾਂ ਨੂੰ ਪਰਤਣਾ ਮੁਸ਼ਕਿਲ ਬੜਾ ਹੈ
ਕੌਣ ਪਹਿਚਾਣੇਗਾ ਸਾਨੂੰ
ਮੱਥੇ ਉੱਤੇ ਮੌਤ ਦਸਖਤ ਕਰ ਗਈ ਹੈ
ਚਿਹਰੇ ਉੱਤੇ ਯਾਰ ਪੈੜਾਂ ਛੱਡ ਗਏ ਨੇ
ਸ਼ੀਸ਼ੇ ਵਿਚੋਂ ਹੋਰ ਕੋਈ ਝਕਦਾ ਹੈ
ਅੱਖਾਂ ਵਿਚ ਕੋਰੀ ਲਿਸ਼ਕ ਹੈ।

ਭਾਗ-ਦੂਸਰਾ

3. ਡਾ. ਜਗਤਰ ਦੀ ਕਵਿਤਾ 'ਰੌਸ਼ਨੀ ਦਾ ਦੌਰ' ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿਚ ਲਿਖੋ।
4. ਮੋਹਨ ਸਿੰਘ ਦੀ ਕਵਿਤਾ 'ਸੈਦਾ ਤੇ ਸਬਜ਼ਾਂ' ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿਚ ਲਿਖੋ।

ਭਾਗ-ਤੀਜਾ

5. ਕਵੀ ਪਾਸ਼ ਦੇ ਜੀਵਨ ਅਤੇ ਰਚਨਾਵਾਂ ਬਾਰੇ ਵਿਸਤ੍ਰਿਤ ਨੋਟ ਲਿਖੋ।
6. ਕਵੀ ਮੋਹਨ ਸਿੰਘ ਦੇ ਜੀਵਨ ਰਚਨਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।

ਭਾਗ-ਚੌਥਾ

7. ਹੇਠ ਲਿਖੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖੋ।
ਸਬਦ, ਨੌਕਰੀ, ਐਖੀ, ਨਿਪੁਨਸਕ ਬੰਦਾ, ਕਿੱਕਰਾ ਦੇ ਫੁੱਲ,
ਸੈਕਰੇਟਰੀ, ਗੁਰੂ ਆਮਰਦਾਸ ਜੀ, ਆਮਾਨਤ, ਗੋਰਵ।
8. ਹੇਠ ਲਿਖੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖੋ।
ਅਸਕੇ, ਪੋੜੀ ਚੜ, ਕੋਲੀ ਫੜ, ਚੋਲ ਖਾ, ਗੋਲੀ, ਚਮਣ ਕੱਦੂ,
ਕਾਲਿਜ, ਬੱਸਾ ਚੱਲੀਆਂ, ਹਰਮੰਦਰ ਸਾਹਿਬ, ਸੀਸਾ।

Paper Code: 4101

Programme	Exam Code	Course Code
Bachelor of Arts	121204	BARL-4421
Bachelor of Science (Non-Medical)	121304	BSNL-4421
Bachelor of Science (Medical)		BSML-4421
Bachelor of Science (Economics)		BECL-4421 ✓
Bachelor of Science (Computer Science)		BCSL-4421
Bachelor of Commerce	121104	BCRL-4421 ✓
Bachelor of Business Administration	121704	BBRL-4421 ✓

Semester- IV

Course Title: Punjabi (Compulsory)

(160)

Time Allowed: 3 Hours

Max Marks: 80

ਨੋਟ: ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ। ਹਰੇਕ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ (16) ਅੰਕ ਹਨ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।

ਭਾਗ-ੳ

- 1) “ਪਗਡੰਡੀਆਂ” ਸਵੈਜੀਵਨੀ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।

- 2) “ਪਗਡੰਡੀਆਂ” ਸਵੈਜੀਵਨੀ ਦਾ ਸਾਰ ਸੰਖੇਪ ਵਿੱਚ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ। (16 ਅੰਕ)

ਭਾਗ-ਅ

- 3) “ਫ਼ਾਸਲੇ” ਨਾਟਕ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਕੀ ਹੈ? ਸਪੱਸ਼ਟ ਕਰੋ।
4) “ਫ਼ਾਸਲੇ” ਨਾਟਕ ਦੀਆਂ ਨਾਟਕੀ ਜੁਗਤਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

(16 ਅੰਕ)

ਭਾਗ-ਬ

- 5) ਪੰਜਾਬ ਸਰਕਾਰ ਦੇ ਮੁੱਖ ਚੋਣ ਅਫ਼ਸਰ ਨੂੰ ਇੱਕ ਚਿੱਠੀ ਰਾਹੀਂ ਆਪਣੇ ਪਿੰਡ ਵਿੱਚ ਚੋਣਾਂ ਦਰਾਨ ਹੋਈਆਂ ਬੇਨਿਯਮੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਓ।
6) “ਗੁਆਚੇ ਦੀ ਭਾਲ” ਸੰਬੰਧੀ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ। (16 ਅੰਕ)

ਭਾਗ-ਸ

- 7) ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਦਾ ਉਲੇਖ ਕਰੋ।
8) ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਸਪੱਸ਼ਟ ਕਰੋ। (16 ਅੰਕ)

FOR GAP YEAR STUDENTS (2023-24).

Paper Code: 9426.

Programme	Exam Code	Course Code
Bachelor of Arts	121204	BARL-4421
Bachelor of Science (Non-Medical)	121304	BSNL-4421
Bachelor of Science (Medical)		BSML-4421
Bachelor of Science (Economics)		BECL-4421
Bachelor of Science (Computer Science)		BCSL-4421
Bachelor of Commerce	121104	BCRL-4421
Bachelor of Business Administration	121704	BBRL-4421

Semester- IV

Course Title: Punjabi (Compulsory)
(160)

Time Allowed: 3 Hours

Max Marks: 40

ਨੋਟ: ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ। ਹਰੇਕ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ (8) ਅੰਕ ਹਨ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।

ਭਾਗ-ੳ

- 1) “ਪਗਡੰਡੀਆਂ” ਸਵੈਜੀਵਨੀ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।

- 2) “ਪਗਡੰਡੀਆਂ” ਸਵੈਜੀਵਨੀ ਦਾ ਸਾਰ ਸੰਖੇਪ ਵਿੱਚ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।

ਭਾਗ-ਅ

- 3) “ਫ਼ਾਸਲੇ” ਨਾਟਕ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਕੀ ਹੈ? ਸਪੱਸ਼ਟ ਕਰੋ।
4) “ਫ਼ਾਸਲੇ” ਨਾਟਕ ਦੀਆਂ ਨਾਟਕੀ ਜੁਗਤਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

ਭਾਗ-ਬ

- 5) ਪੰਜਾਬ ਸਰਕਾਰ ਦੇ ਮੁੱਖ ਚੋਣ ਅਫ਼ਸਰ ਨੂੰ ਇੱਕ ਚਿੱਠੀ ਰਾਹੀਂ ਆਪਣੇ ਪਿੰਡ ਵਿੱਚ ਚੋਣਾਂ ਦਰਾਨ ਹੋਈਆਂ ਬੇਨਿਯਮੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਓ।
6) “ਗੁਆਚੇ ਦੀ ਭਾਲ” ਸੰਬੰਧੀ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ।

ਭਾਗ-ਸ

- 7) ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਦਾ ਉਲੇਖ ਕਰੋ।
8) ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਸਪੱਸ਼ਟ ਕਰੋ।

Paper Code: 4103

Programme	Exam Code	Course Code
Bachelor of Arts	121204	BARL-4431 ✓
Bachelor of Science (Non-Medical)	121304	BSNL-4431 ✓
Bachelor of Science (Medical)		BSML-4431 ✓
Bachelor of Science (Economics)		BECL-4431
Bachelor of Science (Computer Science)		BCSL-4431 ✓
Bachelor of Commerce	121104	BCCL-4431
Bachelor of Business Administration	121704	BBRL-4431

Semester- IV

Course Title: Punjab History and Culture

(30)

Time Allowed: 3 Hours

Max Marks: 80

Note: Attempt five question, selecting at least one question from each section in 1000 words and the fifth question may be selected from any of the four section. Each question carries 16 marks.

Section-I

1. What contribution was made by Guru Har Gobind ji in the transformation of Sikhism?

2. What were the causes of martyrdom of Guru Teg Bahadur Ji?

Section-II

3. Discuss the main principles and significance of Khalsa Panth.
4. Discuss the circumstances which led to the creation of Khalsa in 1699.

Section-III

5. Explain the achievements of Banda Singh Bahadur.
6. Write a detailed note on Ahluwalia Misl and Ramgarhia Misl.

Section-IV

7. Write a note on Baisakhi and Diwali.
8. Discuss the military administration under Maharaja Ranjit Singh.

Hindi Version

सैक्शन-1

1. सिख धर्म के परिवर्तन में गुरु हर गोबिंद जी का क्या योगदान था?
2. गुरु तेग बहादुर जी की शहादत के क्या कारण थे?

सैक्शन-2

3. खालसा पंथ के प्रमुख सिद्धांतों और महत्व की चर्चा कीजिए।
4. उन परिस्थितियों की चर्चा कीजिए जिनके कारण 1699 में खालसा का निर्माण हुआ।

सैक्शन-3

5. बंदा सिंह बहादुर की उपलब्धियों का वर्णन कीजिए।
6. अहलूवालिया मिसल और रामगढ़िया मिसल पर एक विस्तृत टिप्पणी लिखिए।

सैक्शन-4

7. बैसाखी और दीवाली पर एक नोट लिखिए।
8. महाराजा रणजीत सिंह के अधीन सैन्य प्रशासन की चर्चा कीजिए।

Programme	Exam Code	Course Code
Bachelor of Arts	121204	BARL -4212
Bachelor of Science (Medical)	121304	BSML -4212
Bachelor of Science (Non-Medical)		BSNL -4212
Bachelor of Science (Computer Science)		BCSL -4212
Bachelor of Science (Economics)		BECL -4212
Bachelor of Commerce	121104	BCRL -4212
Bachelor of Business Administration	121704	BBRL -4212

Semester - IV

Course Title: English (Compulsory)

Time Allowed: 3 Hours

Max Marks: 80

SECTION-A

Q1) Attempt any TEN questions. Each question carries 2 marks

(10X2= 20)

a) Put in *at, on or in*.

I've been invited to a wedding _____ 14 February.

b) Read the situation and make sentence using just *in time*.

A child ran into the road in front of your car. You saw the child at the last moment. (manage / stop)

c) Use *in, at or on*.

Where's the label? _____

d) Complete the sentences. Use *in, at or on + the following*:

The Plane

Prison

Some people are _____ for crimes that they did not commit.

e) Put in *to/at/in/into* where necessary. If no preposition is necessary, leave the space empty.

I'm tired. Let's go _____ home now.

f) Write sentences about places you have been to. Use *I've been to* / *I've never been to* + the words in bracket.

(never) _____

g) Write sentences using *got + into / out of / on / off*.

You were walking home. A friend passed you in her car. She saw you, stopped and offered you a lift. She opened the door.

What did you do? _____

h) Complete the sentences using *by*.

Carl won the race. He was five metres in front of the other runners.

Carl _____

i) Complete the sentences with the correct *preposition*.

There are some differences _____ British and American English.

j) Complete the sentences using an *adjective + preposition*. Choose from:

Excited	Nervous
---------	---------

Are you _____ the exam?

k) Complete the second sentence so that it means the same as the first.

There were lots of tourists in the streets. The streets were crowded _____

l) Which is correct?

i. Can you explain this word to me?

ii. Can you explain me this word?

m) Put in the correct preposition after *care*. If no preposition is necessary, leave the space empty.

Who's going to take care _____ you when you are old?

n) Complete the sentence with *look for* or *look after*. Use the correct form of look (*looks/ looked/looking*).

I _____ for my keys, but I couldn't find them anywhere.

o) Complete the sentences using *hear or heard + a preposition* (*about/of/from*).

I'm surprised you haven't _____ her. She's quite famous.

SECTION – B

Q2) Attempt any one essay in about 400 words. (1x10=10)

a) Does fashion industry needs to change?

OR

b) Is hunting an immoral act?

Q3) Give a single word for the phrases given below (any 5) (5x2=10)

a) Government of the people, for the people, and by the people

b) The right of self-government

c) A man whose wife is dead

d) To run away with lover in order to get married secretly

e) Able to read

f) Fit for food

g) That which cannot be conquered

h) Unable to die

SECTION – C

Q4) Give words that are similar in meaning: (5x2=10)

a) To become smaller

b) The process of bringing water to agricultural land

c) Regions or areas

d) To use up something completely

e) Needing many years to develop

Q5) Fill in the blanks by choosing the appropriate word: (5x2=10)

Fertile	Collapsed	Disrupt	Roots	Deteriorated	Arid
---------	-----------	---------	-------	--------------	------

a) Irrigation can change _____ land into protective farmland.

b) Mayan history shows how the pressure of human populations can _____ the natural ecology of a region and make it unlivable.

c) Even though the earthquake was not very strong, some older buildings _____ and many others were badly damaged.

d) The _____ of this plant do not reach deep into the soil. That's why it will not grow in regions with little rainfall.

e) Weather forecasters are advising motorists not to drive today because conditions on the roads have _____ rapidly in the last two hours.

SECTION – D

Q6) Attempt any three questions in about 200 words each. (3x5=15)

- a) Explore the theme of control and power. Who seems to have control at different points in the poem *Porphyria's Lover*.
- b) Explore the symbolism of the "School," "Grain," and "Setting Sun." What might each represent in the poem *Because I Could Not Stop For Death*.
- c) Why does Frost repeat the line "And miles to go before I sleep"? What effect does this repetition have on the poem's ending and its meaning in the poem *Stopping by Woods on A Snowy Evening*?
- d) What does the poem reveal about human expectations after death in the poem *Ah! Are You Digging on my Grave?*
- e) Analyse the meaning of the final line: "The only emperor is the emperor of ice-cream." in the poem *Emperor of Ice-Cream*.

Q7) Explain any one the following with reference to the context in about 250 words. (1x5=5)

*"Because I could not stop for Death –
He kindly stopped for me –
The Carriage held but just Ourselves –
And Immortality"*

OR

*"Mistress, I dug upon your grave
To bury a bone, in case
I should be hungry near this spot
When passing on my daily trot.
I am sorry, but i quite forgot
It was your resting-place."*