

Exam Code: 408801

Paper Code: 1280

Programme: Diploma in Computer Applications

(Semester - I)

**Course Title: Information Technology and Operating
System**

Course Code: DCAL-1111

Time Allowed: 3 Hours

Maximum 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

1. Explain various components of computer. (14)
2. Explain track ball and light pen in detail. (14)

Section – B

3. Explain difference between ram and rom with example. (14)
4. Explain the working of dotmatrix printer in detail. (14)

Section – C

5. Explain any two types of operating system. (14)
6. Explain the concept of linker and loader. (14)

Section – D

7. Explain various parts of window screen. (14)
8. How to change window appearance in detail. (14)

Exam Code: 408801

Paper Code: 1281

Programme: Diploma in Computer Applications

(Semester - I)

Course Title: PC Computing-I (Back Office Operations)

Course Code: DCAL-1112

Time Allowed: 3 Hours

Maximum 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. a) Why MS-Word is called word processing?
Explain different features of good Word Processing. 10
- b) Explain the purpose of Title bar and menu bar in MS-Word. 4
- Q2. a) What is the difference between Save and Save As command? 4
- b) What do you mean by page setup? Explain page margin and page orientation. 5
- c) Explain cut, copy and paste commands in MS-Word. 5

Section-B

- Q3 a) What is Table in MS-Word? How we can insert table into a document? 9

- b) Write the procedure for deletion of an existing rows and columns from the table. 5
- Q4 a) Explain the purpose of Watermark, Border and Shading in MS-Word 5
- b) What is the use of power point presentation? Explain 9

Section-C

- Q5 a) Explain Slide view, Notes view and Outline view. 9
- b) How can you add graph in a slide? 5
- Q6 a) Animation reflects more than text. Explain. 7
- b) Write steps for the addition of music to presentation. 7

Section-D

- Q7 a) What is worksheet? Write feature of worksheet. 6
- b) What do you mean by cell, absolute addressing and relative addressing of a cell? 6
- c) Explain AVERAGE and MAX function in MS-Excel. 2
- Q8 a) How can you print a worksheet? 4
- b) How can you remove gridlines during printing? 4
- c) How can you create a graph? Write down all the steps? 6

Exam Code: 408801

Paper Code: 1282

Programme: Diploma of Computer Applications

Semester – I

Course Title: Programming in C

Course Code: DCAL-1113

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

1. a) Describe the main features of the C language. (7)
b) Explain the different types of operators in C and illustrate with examples. (7)
2. a) Write a program to read three numbers and compute their average using formatted I/O functions in C. (8)
b) Explain the difference between character I/O and string I/O functions in C, providing examples. (6)

Section – B

3. a) Write a program in C to find the largest of three numbers using if-else statements. (8)
b) Explain the use of break and continue statements with examples of each in C. (6)

4. a) Explain the concept of a function prototype in C and its significance. (8)
- b) Write a program in C to find the sum of an array of integers using a user-defined function. (6)

Section – C

5. a) Explain recursive functions with an example. (4)
- b) Describe the four storage classes in C and their main characteristics. (10)
6. What is array? Explain its types in detail. (14)

Section – D

7. Explain the concept of pointers in C. How can pointers be used to access array elements? Explain with the help of example. (14)
8. a) Define a structure in C and describe how to initialize structure members. (6)
- b) Explain the concept of a union and its differences from a structure. Provide an example to illustrate. (8)

**Exam Code: 502001
(50)**

Paper Code: 1235

**Programme: Diploma in Early Childhood Care and
Education, Semester-I**

Course Title: Foundation of Education

Course Code: DECL-1281 ✓

Time Allowed: 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 questions carries 14 marks.

Section- A

1. What is the Montessori method of education? What are the key principles and features of Montessori education? (14)
2. Explain in detail about the role of Indian educators in pre school education. (14)

Section- B

3. Compare the benefits and draw backs of narrow, broader and derivative education. (14)

4. Briefly explain the meaning of ECCE in addition to it's need and importance. Write down the objectives of ECCE. (14)

Section- C

5. Describe the ICDS and its objectives. Explain the organizational set up of ICDS. (14)
6. Write short notes on the following:
 - i. SOS VILLAGE.
 - ii. Mobile crutches. (7,7)

Section- D

7. Write down the functions and objectives of NCERT. Explain the role of NCERT in Indian Education. (14)
8. What are the major contributions of National Institute of Public Cooperation and Child development (NIPCCD) and Central Social Welfare Board (CSWB) in the development of ECCE? (14)

**Exam Code: 502001
(50)**

Paper Code: 1236

**Programme: Diploma in Early Childhood Care and
Education,
Semester-I**

Course Title: Child Health and Nutrition-I

Course Code: DECL-1282

Time Allowed: 3 Hours

Max Marks: 70

Note: Students are required to 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 is food and explain its function.
2. What is nutritional status? Explain the effect of infection on nutritional status.

Section —B

3. Write short note on the fat soluble vitamins.
4. What are essential and non-essential amino acids? Explain the sources and uses of Protein.

Section C

5. Explain the different levels of health care services and health care delivery systems in India.
6. Write short note on the meal planning for the lactating mother.

Section-D

7. Write short note the recommended dietary intake of Infants.
8. Explain the importance of good health for the development of the child ,

Exam Code: 502001
(50)

Paper Code: 1237

**Programme: Diploma in Early Childhood Care
and Education
Semester-I**

**Course Title: Services and Programmes
for Children –I**

Course Code: DECL-1283

Time Allowed: 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. All questions carry 14 equal marks

SECTION I

1. Throw some light on the theoretical orientation in early childhood care education. 14
2. What is the most important perception of early childhood Care and Education? 14

SECTION II

3. Briefly describe the importance of Counselling for parents of a child. 14
4. Give a brief account on the services which are provided by government and NGOs for special children. 14

SECTION III

5. Discuss the causes of mental retardation. Outline the salient behavioural characteristics. 14
6. What are the common behavioural problems in special children? 14

SECTION IV

7. Write short notes on:
 - a. Integrated Child Development Services. 7
 - b. Kishore Shakti Yojana (KSY). 7
8. What is the status of Mid Day meal scheme in India with reference to the present context. 14

**Exam Code: 502001
(50)**

Paper Code: 1238

**Programme: Diploma in Early Childhood Care and
Education, Semester-I**

Course Title: Child Care Taker-I

Course Code: DECL-1284 ✓

Time Allowed: 3 Hours

Max Marks: 70

Instructions: There are 8 questions in four sections, students are required to 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 -I

1. What are the primary objectives of the Child Caretaker (Non-Clinical) program?
2. What are the primary roles and responsibilities of a child caretaker?

Section -II

3. Describe the process of preparing a daily care outline with the guidance of parents or guardians. -
4. Summarize the physical and nutritional needs of children in various age groups.

Section -III

5. Discuss ways caretakers can assist children in identifying and pursuing their interests and hobbies.
6. What methods can caretakers use to support children in communicating effectively and Discuss the importance of communication skills in a child's development.

Section -IV

7. What are some effective ways to ensure that play and learning areas are secure and safe for children, both indoors and outdoors?
8. What are some key emergency procedures that should be established in a childcare environment and how can caretakers effectively communicate these procedures to children?

Punjabi version

ਹਦਾਇਤਾਂ : ਚਾਰ ਭਾਗਾਂ ਵਿੱਚ 8 ਪ੍ਰਸ਼ਨ ਹਨ, ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣਦੇ ਹੋਏ, ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਨ ਦੀ ਲੋੜ ਹੁੰਦੀ ਹੈ। ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਭਾਗ ਤੋਂ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 14 ਅੰਕ ਹੁੰਦੇ ਹਨ।

ਸੈਕਸ਼ਨ-1

1. ਚਾਈਲਡ ਕੋਅਰਟੇਕਰ (ਨਾਨ-ਕਲੀਨਿਕਲ) ਪ੍ਰੋਗਰਾਮ ਦੇ ਮੁੱਖ ਉਦੇਸ਼ ਕੀ ਹਨ?
2. ਬੱਚੇ ਦੀ ਦੇਖਭਾਲ ਕਰਨ ਵਾਲੇ ਦੀਆਂ ਮੁੱਖ ਭੂਮਿਕਾਵਾਂ ਅਤੇ ਜ਼ਿੰਮੇਵਾਰੀਆਂ ਕੀ ਹਨ?

ਸੈਕਸ਼ਨ-2

3. ਮਾਪਿਆਂ ਜਾਂ ਸਰਪ੍ਰਸਤਾਂ ਦੇ ਮਾਰਗਦਰਸ਼ਨ ਨਾਲ ਰੋਜ਼ਾਨਾ ਦੇਖਭਾਲ ਦੀ ਰੂਪਰੇਖਾ ਤਿਆਰ ਕਰਨ ਦੀ ਪ੍ਰਕਿਰਿਆ ਦਾ ਵਰਣਨ ਕਰੋ।
4. ਵੱਖ-ਵੱਖ ਉਮਰ ਸਮੂਹਾਂ ਦੇ ਬੱਚਿਆਂ ਦੀਆਂ ਸਰੀਰਕ ਅਤੇ ਪੌਸ਼ਟਿਕ ਲੋੜਾਂ ਦਾ ਸੰਖੇਪ ਵਰਣਨ ਕਰੋ।

ਸੈਕਸ਼ਨ-3

5. ਉਹਨਾਂ ਤਰੀਕਿਆਂ ਦੀ ਚਰਚਾ ਕਰੋ ਕਿ ਦੇਖਭਾਲ ਕਰਨ ਵਾਲੇ ਬੱਚਿਆਂ ਨੂੰ ਉਹਨਾਂ ਦੀਆਂ ਰੁਚੀਆਂ ਅਤੇ ਸ਼ੌਂਕਾਂ ਦੀ ਪਛਾਣ ਕਰਨ ਅਤੇ ਉਹਨਾਂ ਨੂੰ ਪੂਰਾ ਕਰਨ ਵਿੱਚ ਸਹਾਇਤਾ ਕਰ ਸਕਦੇ ਹਨ।

6. ਦੇਖਭਾਲ ਕਰਨ ਵਾਲੇ ਬੱਚਿਆਂ ਨੂੰ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਢੰਗ ਨਾਲ ਸੰਚਾਰ ਕਰਨ ਵਿੱਚ ਸਹਾਇਤਾ ਕਰਨ ਲਈ ਕਿਹੜੇ ਤਰੀਕਿਆਂ ਦੀ ਵਰਤੋਂ ਕਰ ਸਕਦੇ ਹਨ ਅਤੇ ਬੱਚੇ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਸੰਚਾਰ ਹੁਨਰ ਦੀ ਮਹੱਤਤਾ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

ਸੈਕਸ਼ਨ-4

7. ਇਹ ਯਕੀਨੀ ਬਣਾਉਣ ਦੇ ਕੁਝ ਪ੍ਰਭਾਵੀ ਤਰੀਕੇ ਕੀ ਹਨ ਕਿ ਖੇਡਣ ਅਤੇ ਸਿੱਖਣ ਦੇ ਖੇਤਰ ਬੱਚਿਆਂ ਲਈ ਘਰ ਦੇ ਅੰਦਰ ਅਤੇ ਬਾਹਰ ਸੁਰੱਖਿਅਤ ਅਤੇ ਸੁਰੱਖਿਅਤ ਹਨ?
8. ਕੁਝ ਮੁੱਖ ਐਮਰਜੈਂਸੀ ਪ੍ਰਕਿਰਿਆਵਾਂ ਕੀ ਹਨ ਜੋ c ਵਿੱਚ ਸਥਾਪਿਤ ਕੀਤੀਆਂ ਜਾਣੀਆਂ ਚਾਹੀਦੀਆਂ ਹਨ।

Exam Code: 502001
(50)

Paper Code: 1239

**Programme: Diploma in Early Childhood Care and
Education, Semester-I**

**Course Title: Child Psychology and Child
Development**

Course Code: DECM-1285

Time Allowed: 3 Hours

Max Marks: 50

Instructions: 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 -I

1. Write about scope and importance of Child Psychology.
2. Explain the principles of Child Development.

Section -II

3. Discuss about the various types of intelligence tests.
4. Write about the factors which affects the personality of person.

Section -III

5. Define learning and write about its characterstics.
6. Explain the factors which affect learning.

Section -IV

7. Write the characteristics and educational programme for gifted children.
8. Discuss about the characteristics and educational programme for handicapped Children.

Punjabi Version

ਹਦਾਇਤਾਂ : ਚਾਰ ਭਾਗਾਂ ਵਿੱਚ 8 ਪ੍ਰਸ਼ਨ ਹਨ, ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣਦੇ ਹੋਏ, ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਨ ਦੀ ਲੋੜ ਹੁੰਦੀ ਹੈ। ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਭਾਗ ਤੋਂ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 10 ਅੰਕ ਹੁੰਦੇ ਹਨ।

ਸੈਕਸ਼ਨ-1

1. ਬਾਲ ਮਨੋਵਿਗਿਆਨ ਦੇ ਦਾਇਰੇ ਅਤੇ ਮਹੱਤਤਾ ਬਾਰੇ ਲਿਖੋ।
2. ਬਾਲ ਵਿਕਾਸ ਦੇ ਸਿਧਾਂਤਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ-2

3. ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਦੇ ਖੁਫੀਆਂ ਟੈਸਟਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।
4. ਉਹਨਾਂ ਕਾਰਕਾਂ ਬਾਰੇ ਲਿਖੋ ਜੋ ਵਿਅਕਤੀ ਦੀ ਸ਼ਖਸੀਅਤ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਦੇ ਹਨ।

ਸੈਕਸ਼ਨ-3

5. ਸਿੱਖਣ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਇਸ ਦੇ ਗੁਣਾਂ ਬਾਰੇ ਲਿਖੋ।
6. ਸਿੱਖਣ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ-4

7. ਪ੍ਰਤਿਭਾਸ਼ਾਲੀ ਬੱਚਿਆਂ ਲਈ ਅੱਖਰ ਅਤੇ ਵਿਦਿਅਕ ਪ੍ਰੋਗਰਾਮ ਲਿਖੋ।
8. ਅਪਾਹਜ ਬੱਚਿਆਂ ਲਈ ਕੈਰਕਰਿਸਟਿਕ ਅਤੇ ਐਜੂਕੇਸ਼ਨਲ ਪ੍ਰੋਗਰਾਮ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

(For Reappear Candidates Only (2024-25))

Exam Code: 323501

Paper Code: 9133

Post Graduate Diploma in Computer Applications (Semester-I)

Course Title: Programming in Python

Course Code: PCAL-1114

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-Explain the process of Computational problem solving?

Q2-Explain various data types in Python with programming examples.

Section-B

Q3-What is recursion? Explain recursive function with programming example

Q4-What is dictionary? How will you create it. Also difference between dictionary and list?

Section-C

Q5-Explain arguments and parameters in python using functions.

Q6-Explain the concept of files in python. Explain their advantages and disadvantages. Explain seek and tell method in python.

Section-D

Q7- Explain object oriented programming in python? Write a program in python to demonstrate the concept of inheritance.

Q8- What are python modules? Also explain the top down design in python with example.

Exam Code: 306101

Paper Code: 1300

**Programme: Post Graduate Diploma in Garment
Construction and Fashion Designing (Semester – I)**

Course Title: Fashion Concepts

Course Code: PGFL-1231 ✓

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

1. Describe drafting in detail with its different tools and importance? 14
2. Explain the following Fashion Terminology: 14
 - a) Style
 - b) Classic
 - c) Trends
 - d) Mass fashion

Section – B

3. How did clothing originate? Explain in detail? 14
4. Explain in detail about Theories of fashion adoption with illustration? 14

Section – C

5. Explain in detail about different Factors which affecting Fashion cycle? 14
6. Write in detail about fashion forecasting with its process and importance? 14

Section – D

7. Write a note on elements of design and explain why they are important in garment designing? 14
8. Explain in detail about factors affecting clothing choices for different age group? 14

Exam Code: 306101

Paper Code: 1301

**Programme: Post Graduate Diploma in Garment
Construction and Fashion Designing (Semester – I)**

Course Title: Basics of Sustainable Fashion

Course Code: PGFM-1232

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 8 marks.

Section – A

Q1 Write a short note on the following.

a) Fast fashion

b) Vintage fashion

Q2 Define Life cycle of a garment. Explain life cycle assessment tools briefly.

Section – B

Q3 Write a short note on Vivienne Westwood.

Q4 Write a note on case study of Nike.

Section – C

Q5 Write a detailed note on case study of Rana Plaza.

Q6 Explain as short notes:

a) Design for durability

b) Using Mono-materials

Section – D

Q7 Write notes on following:

a) Washing garments and Storing garments

b) Difference between Recycling and Upcycling

Q8 Write a short note on the following:

a) Repairing clothes

b) Practicing 3R's of Recycling

Exam Code: 306201
(20)

Paper Code: 1240

**Programme: Post Graduate Diploma in Nutrition and
Dietetics
Semester-I**

Course Title: Physiology

Course Code: PNDL-1281 ✓

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 14 marks.

Section-A

1. (a) What is blood pressure, What is normal range. What do you understand by the term PH in compatibility. (3.5)
(b) What are blood groups. What do you understand by term universal donor & recipients. (3.5)
(c) Explain basic structure of heart & write brief overview of Cardiac cycle. (3.5+3.5)
2. (a) Draw & explain cell structure. (7)
(b) Explain functions of inclusion bodies. (7)

Section-B

3. Write note on:-

- (a) Transmission of nerve impulse (4)
- (b) Synapse formation (3)
- (c) Sympathetic & Parasympathetic nervous system (2+2)
- (d) Functions of nerve & Receptor cells. (3)

4. (a) Explain Regulatory functions of Kidney. (3)
- (b) Write about mechanism of urine formation. (3)
- (c) Role of Kidney in homeostasis and Regulation of body temperature. (2+2)
- (d) Explain structure of Kidney. (4)

Section-C

5. (a) Explain functions & regulation of
- (i) Salivary glands
 - (ii) Stomach
 - (iii) Pancreas
 - (iv) Liver (4*2.5)
- (b) Role of Enzymes in digestion of Carbohydrates and Proteins. (2+2)
6. (a) Explain structure of respiratory system. (5)
- (b) Draw a Labelled diagram of human respiratory

system. (5)

(c) Write about Mechanism of Respiration & its regulation. (4)

Section-D

7. (a) Explain function of male & female sex organs. (3+3)
(b) Write Note on- Menstrual cycle. (4)
(c) Explain role of Hormones in reproduction
Follicle-stimulating Hormone(FSH) (4)
8. (a) What are basic functions of Hormones. (4)
(b) What are types of Hormones. Explain any four. (6)
(c) Explain functions of Thyroid and Pancreas glands. (2+2)

Exam Code: 306201

Paper Code: 1241

**Programme: Post Graduate Diploma in Nutrition and
Dietetics (Semester: I)**

Course Title: Community Nutrition and Social Welfare

Course Code: PNDL-1282

Time Allowed: 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 is PEM? Discuss in detail about etiology, clinical symptoms and its prevention.
2. Explain the following with examples
 - a. Germination
 - b. Supplementation
 - c. Fortification

Section-B

3. Discuss various national and international organizations engaged in nutrition activities.
4. What is Food and Nutrition security? Discuss the factors affecting on it.

Section-C

5. Explain the methods of indirect assessment of nutritional problems in community.
6. Why does community need nutrition education? Discuss various methods of nutrition education.

Section-D

7. Write in brief about the ministries and departments of social welfare.
8. Discuss in brief about the official and non-official organizations involved in social welfare.

Exam Code: 306201
(20)

Paper Code: 1242

**Programme: Post Graduate Diploma in Nutrition and
Dietetics Semester-I**

Course Title: Institutional Food Administration

Course Code: PNDL-1283

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. What is the importance of standardization in food services.
2. How will you differentiate between commercial and non commercial services ?

SECTION B

3. Do you think training and development programmes increase the efficiency of employees? Elucidate.
4. How can employers make employees realize that benefits and services must be earned?

SECTION C

5. Explain in detail about the various factors affecting prices of the product.
6. State the importance of Financial Management in a food based enterprise.

SECTION D

7. Write detailed note on dishwashing process.
8. State various factors that affect the selection of equipment in a catering enterprise.

Exam Code: 306201

Paper Code: 1243

**Programme: Post Graduate Diploma in Nutrition and
Dietetics (Semester: I)**

Course Title: Nutritional Biochemistry

Course Code: PNDM-1284 ✓

Time Allowed: 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. A) What are essential amino acids? Name the various essential amino acids required by our body? (7 marks)
B) What are fatty acids? Name any one saturated and one unsaturated fatty acid? (3 marks)
2. What are Carbohydrates? With the help of suitable examples discuss the importance of disaccharides and polysaccharides? (10 marks)

Section B

3. A) Discuss β - oxidation of fatty acids? (5 marks)
B) Briefly explain Urea cycle? (5 marks)
4. Write a note on TCA cycle? (10 marks)

Section C

5. Write a note on factors affecting enzyme catalysis? (10 marks)
6. A) Write a note on any two inborn errors of metabolism? (4 marks)
B) What is the biological role of insulin and glucagon? (6 marks)

Section D

7. Discuss the biochemical role of fat soluble Vitamins? (10 marks)
8. Write a note on
A) Macro minerals B) Antioxidants (5+5 marks)

Exam Code: 306201

Paper Code: 1244

**Programme: Post Graduate Diploma in Nutrition and
Dietetics (Semester: I)**

Course Title: Basic Nutrition

Course Code: PNDL-1287

Time Allowed: 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 – I

1. What are the functions of foods?
2. What are the factors that lead to malnutrition?

Section – II

3. What are the advantages of cooking?
4. What is the effect of cooking on nutritive value of foods?

Section – III

5. Write the classification of carbohydrates.
6. Write the functions of protein.

Section – IV

7. What are the factors affecting BMR?
8. How will you determine energy value of foods using calorimeter?