



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetics Sciences
DPC 1243 – Biochemistry
Batch – 04
1st Year 2nd Semester
End semester SEQ Special Repeat Examination

Date : 11th of August 2026

Time : 9.00 am. – 11.00 am (Two Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
 - Answer **ALL** questions.
 - You should write legibly in black or blue ink.
 - You are allowed to use a scientific calculator for the examination.
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QUESTION 01

(100 marks)

- 1.1. State **three (03)** irreversible enzymes involved in glycolysis. (15 marks)
- 1.2. Differentiate between glycolysis and glycogenolysis. (30 marks)
- 1.3. Draw a diagram to illustrate the electron transport chain in mitochondria. (25 marks)
- 1.4. Mention **five (05)** metabolic pathways that are activated during well fed state. (30 marks)

QUESTION 02

(100 marks)

- 2.1. State **four (04)** types of chemical bonds and interactions responsible for maintaining the tertiary structure of proteins. (20 marks)
- 2.2. Write a short note on the β -pleated sheet structure of proteins. (30 marks)
- 2.3. State **four (04)** metabolic disorders associated with Vitamin D deficiency. (20 marks)
- 2.4. Describe the biochemical roles of Vitamin K in blood coagulation. (30 marks)

QUESTION 03**(100 marks)**

- 3.1. State **three (03)** physiological functions of high-density lipoprotein (HDL). (15 marks)
- 3.2. List **five (05)** biological functions of phospholipids. (25 marks)
- 3.3. Compare and contrast saturated and unsaturated fatty acids. (25 marks)
- 3.4. Describe the mechanism of action of steroid hormones through intracellular receptors. (35 marks)

QUESTION 04**(100 marks)**

- 4.1. Describe the structural features of RNA and explain how they differ from DNA. (35 marks)
- 4.2. In a double-stranded DNA molecule, Cytosine constitutes 22% of the total nitrogenous bases. Calculate the percentages of Adenine, Thymine, and Guanine. (30 marks)
- 4.3. State **three (03)** functions of DNA polymerase during DNA replication. (15 marks)
- 4.4. Name **two (02)** pyrimidine nucleotide metabolic pathways. (20 marks)



Faculty of Health Sciences

Diploma in Pharmaceutical & Cosmetic Sciences

DPC 1223 – Pharmaceutical and Cosmeceutical Materials and Dispensing

Batch – 04

1st year 2nd semester

End Semester SEQ Examination

Date: 17th May 2026

Time: 09.00 a.m. – 12.00 noon (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01

(100 marks)

- 1.1 State the purpose of a Batch Manufacturing Record (BMR) in raw material dispensing. (20 marks)
- 1.2 Outline the correct material issuance procedure, as per Good Manufacturing Practices (GMP). (40 marks)
- 1.3 Discuss the need for proper handling of pharmaceutical materials in manufacturing and storage areas. (40 marks)

Question 02

(100 marks)

- 2.1 Define “sampling” in pharmaceutical and cosmeceutical manufacturing. (15 marks)
- 2.2 Analyse how poor sampling techniques can affect the quality of the pharmaceutical products. (25 marks)
- 2.3 Outline the stepwise acceptance or rejection procedure of incoming materials. (30 marks)
- 2.3 State the roles of following departments in receipt of materials.
 - 2.3.1 goods receiving unit (warehouse)
 - 2.3.2 quality control (QC)
 - 2.3.3 quality assurance (QA) (30 marks)

Question 03

(100 marks)

- 3.1 List **four (04)** characteristics of manual documentation. (20 marks)
- 3.2 State **four (04)** types of weighing balances used for industrial purposes. (20 marks)
- 3.3 Shortly describe why any company must ensure employee and product safety. (30 marks)
- 3.4 Outline the environmental impact of single-use personal protective equipment. (30 marks)

Question 04**(100 marks)**

- 4.1 Differentiate between an on-site supplier audit and a desk audit. (20 marks)
- 4.2 Outline the influence of following factors in supplier selection.
- 4.2.1 Inspection history and warning letters
 - 4.2.2 Lead time of the supplier (30 marks)
- 4.3 State the main steps in a typical tender process. (20 marks)
- 4.4 Describe **three (03)** major differences in the material requisition process of a pharmaceutical manufacturer and a pharmaceutical distributor. (30 marks)

Question 05**(100 marks)**

- 5.1 Evaluate the effectiveness of FIFO and FEFO systems in preventing expiry-related defects in pharmaceutical and cosmetic products. (30 marks)
- 5.2 Compare different shelving and storage methods used in pharmaceutical and cosmeceutical warehouses. (30 marks)
- 5.3 A batch of pharmaceutical materials is found stored in an area with uncontrolled temperature and mixed with unrelated products.
Outline the corrective actions you would take to restore proper storage conditions to comply with GMP requirements. (40 marks)

Question 06**(100 marks)**

- 6.1 List **four (04)** essential criteria for the material needs identification process. (20 marks)
- 6.2 State the role of following personnel in identification of material requirements in a pharmaceutical / cosmeceutical manufacturing company.
- 6.2.1 Formulation Scientist
 - 6.2.2 Quality Assurance Manager
- (10 x 2 = 20 marks)
- 6.3 Relate the ethical aspects to be considered, during material needs identification process. (30 marks)
- 6.4 State the steps involved in supplier selection process. (30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetics Sciences
DPC 1243 – Biochemistry
Batch – 04
1st Year 2nd Semester
End semester SEQ Examination

Date : 11th of May 2026
Time : 9.00 am. – 11.00 am (Two Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
 - Answer **ALL** questions.
 - You should write legibly in black or blue ink.
 - You are allowed to use a scientific calculator for the examination.
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QUESTION 01 **(100 marks)**

- 1.1. List five (05) functions of lipids. (25 marks)
- 1.2. Compare and contrast omega and delta nomenclature of fatty acids. (25 marks)
- 1.3. State three (03) functions of cholesterol in the plasma membrane. (15 marks)
- 1.4. Mention the main steps involved in the signal transduction pathway of thyroid hormone. (35 marks)

QUESTION 02 **(100 marks)**

- 2.1. Evaluate the characters of DNA molecule structure. (35 marks)
- 2.2. If Adenine 30% double stranded DNA molecule, what are the percentages of Guanine, Cytosine and Thymine. (30 marks)
- 2.3. List three factors involved for DNA denaturation. (15 marks)
- 2.4. Name two pathways of purine nucleotides. (20 marks)

QUESTION 03 **(100 marks)**

- 3.1. State three (03) key regulatory enzymes involved in gluconeogenesis. (15 marks)
- 3.2. Differentiate between glycogenesis and glycogenolysis. (30 marks)
- 3.3. Mention five (05) metabolic pathways that are activated during prolonged fasting. (30 marks)
- 3.4. Draw a diagram to illustrate the electron transport chain in mitochondria. (25 marks)

QUESTION 04**(100 marks)**

- 4.1. State the type of bonds stabilizing the quaternary structure of proteins. (20 marks)
- 4.2. Write a short note on the α -helical structure of proteins. (30 marks)
- 4.3. State the metabolic defects that could arise due to deficiency of Vitamin C. (20 marks)
- 4.4. Describe the biochemical roles of Vitamin D in calcium homeostasis. (30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetics Sciences
DPC 1243 – Biochemistry
Batch – 04
1st Year 2nd Semester
End semester Practical Examination

Date : 11th of May 2026
Time : 01.30 p.m. to 03.30 p.m. (TWO hours)

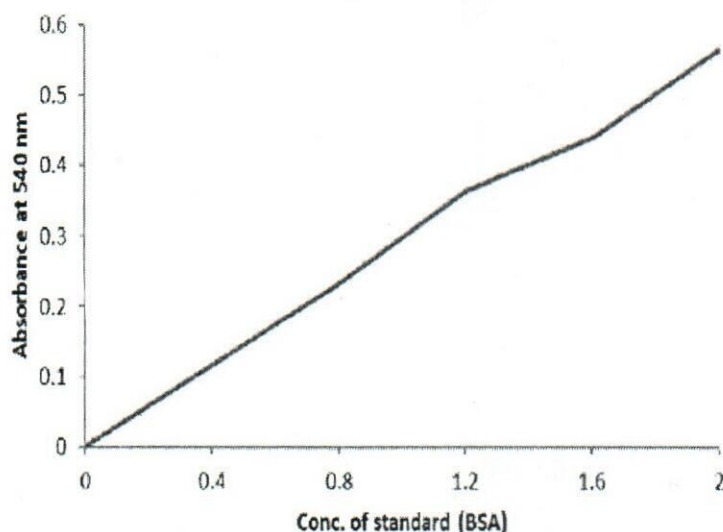
INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are allowed to use a scientific calculator for the examination.

QUESTION 01

(100 marks)

1.1. A biochemist carried out an experiment to determine the concentration of an unknown protein sample using biuret protein assay. The obtained standard curve for the concentration of Bovine Serum Albumin against absorbance is given below.



- 1.1.1. Identify the concentration of the unknown protein sample, if the obtained absorbance for the unknown sample is 0.5. (15 marks)
- 1.1.2. Draw a flow chart to denote the procedure of conducting the above assay. (25 marks)

1.2. Perform a suitable laboratory analysis to identify the presence of fatty acids from the provided unknown samples X and Y at Station 02.

1.2.1. Mention the name of the biochemical test that need to be perform. (05 marks)

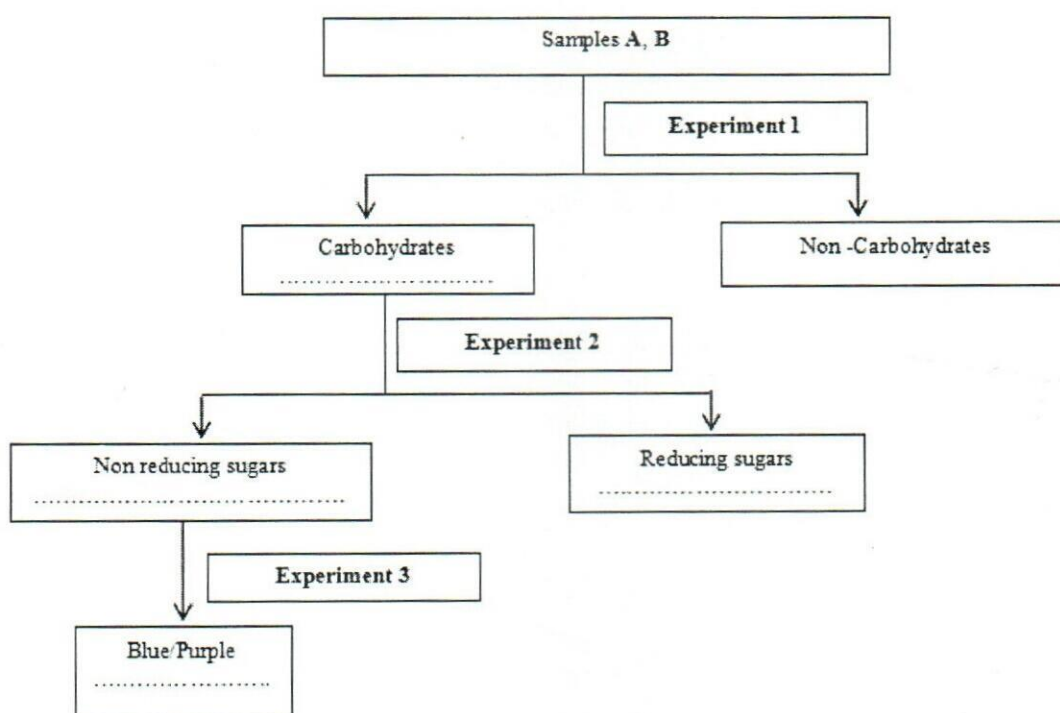
1.2.2. Denote the practical procedure of performing this test. (20 marks)

1.2.3. Demonstrate the practical procedure and identify the presence of fatty acids in the provided samples X and Y. (35 marks)

QUESTION 02

(100 marks)

2.1. Complete the given flow chart to identify the given samples A & B performing suitable biochemical tests. (50 marks)



2.2. Identify the **Experiments 1, 2 & 3**. (30 marks)

2.3 List down the steps that you carried out in **Experiment 1**. (15 marks)

2.4 State a test to distinguish Monosacharides from Disaccharides. (05 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
Workplace Communication Management – DPC 1253
1st Year 2nd Semester
SEQ Examination
4th Batch

Date: 9th May 2026

Time: 09.00 am – 11.00 am – Two Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **four** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

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|-----|--|-------------------|
| 1.1 | Define communication. | (20 Marks) |
| 1.2 | Describe the stages of the communication process. | (20 Marks) |
| 1.3 | Discuss how feedback improves the effectiveness of communication in healthcare or pharmaceutical practice. | (30 Marks) |
| 1.4 | Analyse the importance of active listening in healthcare communication and explain how it helps overcome communication barriers. | (30 Marks) |

Question 02 **(100 Marks)**

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|-----|--|-------------------|
| 2.1 | Identify common barriers to effective communication. | (10 Marks) |
| 2.2 | Explain different channels of communication. | (20 Marks) |
| 2.3 | Analyse how the effective use of multiple communication channels can improve communication and reduce misunderstandings in a healthcare or pharmaceutical setting | (30 Marks) |
| 2.4 | <i>A nurse explains a discharge plan in a busy ward, but the patient has difficulty understanding and no written instructions are given. Later, the patient misses medication doses and a follow-up visit.</i> | (40 Marks) |

Analyse the communication barriers that led to this outcome.

Question 03 **(100 Marks)**

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|-----|--|-------------------|
| 3.1 | List three (03) functions of a Management Information System (MIS). | (30 Marks) |
| 3.2 | Explain how computer applications can be used to collect, store, and manage information in a healthcare or pharmaceutical organization. | (30 Marks) |
| 3.3 | <i>A pharmaceutical company is introducing a new product, but weak communication between departments has led to delays and incorrect information sharing, affecting customer satisfaction.</i> | (40 Marks) |

Analyse how effective communication can improve coordination and contribute to the growth of the organization in this situation.

Question 04**(100 Marks)**

- 4.1 List **five (05)** organizational policies related to the use of computer applications **(20 Marks)**
- 4.2 Explain the importance of confidentiality and information security policies in healthcare communication and data handling. **(20 Marks)**
- 4.3 Briefly describe how ICT tools can enhance communication in healthcare or pharmaceutical organizations. **(30 Marks)**
- 4.4 Analyse how internal and external communication policies contribute to the growth and effective functioning of healthcare organizations. **(30 Marks)**



Faculty of Health Sciences
Diploma in Pharmaceutical & Cosmetic Sciences
DPC 1233 Physiology
1st Year 2nd Semester
Batch – 04
End Semester Examination

Date: 08th May 2026

Time: 09.00 am – 11.00 am – Two Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01

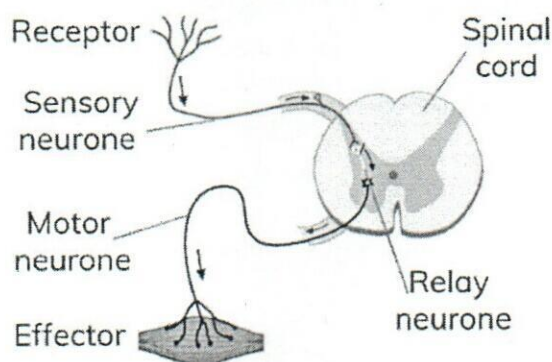
(100 Marks)

- 1.1 List **three (03)** main phases of the cardiac cycle. **(20 Marks)**
- 1.2 List the **four (04)** factors affecting the cardiac output. **(20 Marks)**
- 1.3 List **four (04)** functions of the human respiratory system. **(20 Marks)**
- 1.4 Differentiate the action of **inspiration** and **expiration**. **(40 Marks)**

Question 02

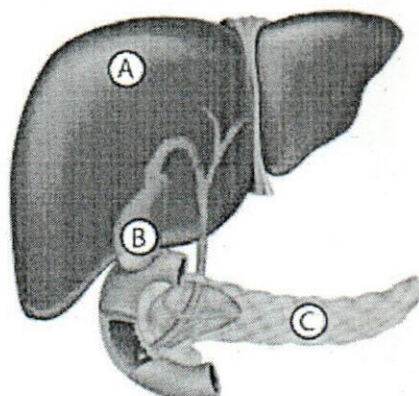
(100 Marks)

- 2.1 List **two (02)** hormones which are secreted by thyroid gland. **(20 Marks)**
- 2.2 State the functions of the hormones stated in question number 2.1 **(20 Marks)**
- 2.3 Identify the difference between a sensory neuron and motor neuron using the diagram given. **(20 Marks)**



- 2.4 Apply your knowledge to fill in the blanks given in the table regarding action of autonomic nervous system. **(40 Marks)**

Organ / Function	Sympathetic Effect	Parasympathetic Effect
a. Heart		
b. Lungs		
c. Eyes		
d. Salivary glands		

Question 03**(100 Marks)**3.1 Identify **three (03)** accessory organs in gastrointestinal system labelled in the picture.**(20 Marks)**

3.2 Compare the locations of intracellular fluid (ICF) and extracellular fluid (ECF).

(20 Marks)3.3 List **one (01)** function of each organ below.**(30 Marks)**

3.3.1 Vagina

3.3.2 Ovary

3.3.3 Testes

3.3.4 Epididymis

3.3.5 Uterus

3.4 List **three (03)** phases of ovarian cycle.**(30 Marks)****Question 04****(100 Marks)**4.1 List **three (03)** functions of urinary system.**(20 Marks)**4.2 Briefly describe **three (03)** phases of urine production.**(20 Marks)**4.3 List **three (03)** major functions of bone and the skeletal system.**(20 Marks)**

4.4 Compare and contrast three (03) types of muscle tissues in the body.

(40 Marks)

Skeletal Muscle	Cardiac Muscle	Smooth Muscle
a.		
b.		
c.		
d.		
e.		



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1223 Pharmaceutical & Cosmeceutical Materials and Dispensing
Batch 03
1st Year 2nd Semester
End Semester (Resit) Examination - SEQ

Date : 30th of August 2025

Time : 9.00 a.m. - 12.00 noon (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** structured essay type questions.
- Answer **ALL** the questions.
- Final answers should be given legibly in black or blue ink.

Question 01

(100 marks)

- 1.1 List **four (04)** people involved in material need identification process. (20 marks)
- 1.2 How does the **demand** affect the material requirement of a company? (25 marks)
- 1.3 Mention the key aspects discussed in monthly 'product management review'. (25 marks)
- 1.4 Outline the applications of Enterprise Resource Planning (ERP). (30 marks)

Question 02

(100 marks)

- 2.1 What is 'on-site' supplier audit? (20 marks)
- 2.2 State **five (05)** types of information in a usual Purchase Order (PO) document. (25 marks)
- 2.3 Write an account on 'lead time' in supply chain. (25 marks)
- 2.4 Differentiate electronic documentation compared to manual documentation. (30 marks)

Question 03

(100 marks)

- 3.1 List **four (04)** information included in a product release label. (20 marks)
- 3.2 Mention the working mechanism of **two (02)** types of weighing scales. (20 marks)
- 3.3 Indicate the administrative controls in a clean room. (30 marks)
- 3.4 Outline the correct donning process of personal protective equipment. (30 marks)

Question 04

(100 marks)

- 4.1 What is a Good Receiving Note (GRN)? (15 marks)
- 4.2 State **four (04)** common reasons for material rejections. (20 Marks)
- 4.3 Outline the procedure for handling rejected pharmaceutical materials. (30 marks)
- 4.4 State the steps in raw material issuance process. (35 marks)

Question 05**(100 marks)**

- 5.1 State the purpose of material sampling. (20 marks)
- 5.2 Mention **four (04)** types of tools used in pharmaceutical sampling. (20 marks)
- 5.3 What is First-In First-Out (FIFO) technique in inventory management? (25 marks)
- 5.4 State different areas in inventory management. (35 marks)

Question 06**(100 marks)**

- 6.1 What are 'drum carriers'? (20 marks)
- 6.2 Mention the need for protecting some pharmaceuticals from direct sunlight. (20 marks)
- 6.3 What is meant by 'product liability coverage' of insurance? (30 marks)
- 6.4 Write a short note on classification of pharmaceutical defects. (30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1243 – Biochemistry
Batch – 03
1st Year 2nd Semester
End semester Special Resit SEQ Examination

Date : 30th of August 2025
Time : 1.30 p.m. – 04.30 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
 - Answer **ALL** questions.
 - You should write legibly in black or blue ink.
 - You are allowed to use a scientific calculator for the examination.
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QUESTION 01

(100 marks)

- 1.1. State **four (04)** enzymes involved in Citric acid cycle. (20 marks)
- 1.2. Differentiate between substrate level phosphorylation and oxidative phosphorylation. (40 marks)
- 1.3. Mention **five (05)** metabolic pathways that are activated during the fasting state. (25 marks)
- 1.4. State **three (03)** glycogen storage disorders. (15 marks)

QUESTION 02

(100 marks)

- 2.1. Compare and contrast between integral and peripheral proteins. (25 marks)
- 2.2. Mention **three (03)** primary active transport systems. (15 marks)
- 2.3. Draw a flow chart to denote the signal transduction pathway of steroid hormone. (35 marks)
- 2.4. Differentiate between endocytosis and exocytosis. (25 marks)

QUESTION 03

(100 marks)

- 3.1. Name one nitrogenous base found in both DNA and RNA. (10 marks)
- 3.2. Draw the chemical structure of a nucleotide. (20 marks)
- 3.3. List **four (04)** structural differences between DNA and RNA. (25 marks)
- 3.4. If the percentage of Cytosine in a DNA sample is 18%, calculate the percentage of Guanine, Adenine, and Thymine. (25 marks)
- 3.5. Mention five (05) factors that influence the stability of the DNA double helix. (20 marks)

QUESTION 04**(100 marks)**

- 4.1. Name five (05) different types of lipids commonly found in human cells. (25 marks)
- 4.2. Illustrate the structure of a phospholipid molecule. (25 marks)
- 4.3. Write short notes on the following:
 - 4.3.1 Saturated vs. unsaturated fatty acids (25 marks)
 - 4.3.2 Functions of cholesterol in the cell membrane (25 marks)

QUESTION 05**(100 marks)**

- 5.1. Mention **five (05)** main functions of proteins. (25 marks)
- 5.2. Write a short note on the tertiary structure of proteins. (25 marks)
- 5.3. Denote the sequence of reactions involved in glucose alanine cycle. (25 marks)
- 5.4. Briefly describe the regulation of urea cycle. (25 marks)

QUESTION 06**(100 marks)**

- 6.1. Classify the following carbohydrates based on the functional group. (15 marks)
 - 6.1.1. Sedoheptulose
 - 6.1.2. Glucose
 - 6.1.3. Fructose
- 6.2. Write a short note on significance of polysaccharides. (30 marks)
- 6.3. Briefly describe the importance of glycogenesis. (25 marks)
- 6.4. Outline the fate of pyruvate under aerobic and anaerobic conditions. (30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1243 – Biochemistry
Batch – 03
1st Year 2nd Semester
End semester SEQ Examination

Date : 04th of May 2025
Time : 9.00 am. – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
 - Answer **ALL** questions.
 - You should write legibly in black or blue ink.
 - You are allowed to use a scientific calculator for the examination.
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QUESTION 01

(100 marks)

1.1 Name a building block of RNA.

(10 marks)

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1.2 Illustrate a basic structure of the molecule you mentioned in 1.1.

(20 marks)

1.3 List main differences between DNA and RNA.

(25 marks)

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1.4 If Adenine is 22% in a DNA molecule, calculate the percentages of Adenine, Thymine and Guanine.

(25 marks)

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1.5 List the factors affect on melting temperature of DNA.

(20 marks)

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QUESTION 02

(100 marks)

2.1 List **five (05)** different classes of lipids.

(25 marks)

[illegible]

2.2 Illustrate formation of triglyceride using a diagram.

(25 marks)

[illegible]

2.3 Write short notes on followings.

2.3.1 Omega nomenclature of fatty acids.

(25 marks)

[illegible]

[illegible]

(100 marks)

(25 marks)

[illegible]

(25 marks)

[illegible]

3.3. Denote the sequence of reactions involved in Cori cycle.

(25 marks)

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3.4. Briefly describe the regulation of urea cycle.

(25 marks)

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QUESTION 04

(100 marks)

4.1. Name the category of following sugars.

(15 marks)

4.1.1. Ribose

4.1.2. Glucose

4.1.3. Erythrose

4.2. Briefly describe the importance of glycogenolysis.

(25 marks)

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4.4. Outline the fate of pyruvate under aerobic and anaerobic conditions.

(30 marks)

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4.5. Write a short note on significance of monosaccharides.

(30 marks)

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QUESTION 05

(100 marks)

5.1. State **four (04)** enzymes involved in glycolysis.

(20 marks)

5.2. Differentiate between glycolysis and gluconeogenesis.

(40 marks)

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5.3. Mention **five (05)** metabolic pathways that are activated during the well fed state. (25 marks)

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5.4. List **three (03)** glycogen storage disorders.

(15 marks)

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QUESTION 06

(100 marks)

6.1. Mention **three (03)** secondary active transport systems.

(15 marks)

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6.2. State **five (05)** factors which aid to maintain the fluidity of the plasma membrane. (25 marks)

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6.3. Differentiate between endocytosis and exocytosis. (25 marks)

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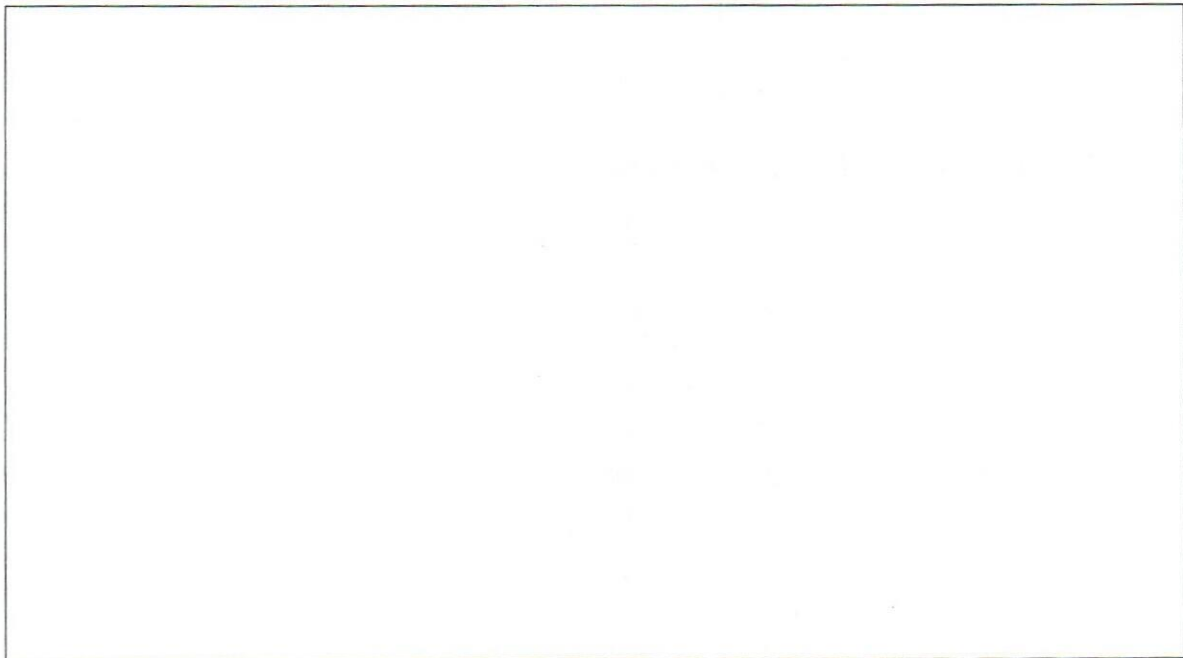
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6.4. Draw a flow chart to denote the signal transduction pathway of peptide hormone. (35 marks)





Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1223 - Pharmaceutical & Cosmeceutical Materials and Dispensing
Batch 03
1st Year 2nd Semester
End Semester Examination - SEQ

INDEX NUMBER:

Date : 27th of April 2025

Time : 1.30 p.m. - 4.30 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** the questions on this paper itself.
- Final answers should be given legibly in black or blue ink.

Question 01

(100 marks)

1.1 List **four (04)** personnel involved in material need identification process.

(20 marks)

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1.2 How does the **demand** of a product affect the material requirement of a company? **(25 marks)**

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1.3 What are the key aspects discussed in monthly 'product management review'? **(25 marks)**

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1.4 Outline the applications of Enterprise Resource Planning (ERP). (30 marks)

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Question 02 (100 marks)

2.1 What is 'remote/desk supplier audit'? (20 marks)

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2.2 State **five (05)** information in a usual Purchase Order (PO) document. (25 marks)

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2.3 Write a short note on 'lead time' in supply chain. (25 marks)

2.4 Compare electronic and manual documentation.

(30 marks)

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Question 03

(100 marks)

3.1 List **four (04)** details included in a product release label.

(20 marks)

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3.2 Mention **two (02)** working mechanisms of main weighing scale types.

(20 marks)

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3.3 Indicate the environmental controls in a clean room.

(30 marks)

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3.4 Outline the correct donning process of personal protective equipment.

(30 marks)

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Question 04**(100 marks)**

4.1 What is a Good Receiving Note (GRN)?

(20 marks)4.2 State **four (04)** reasons for material rejections in a cosmetic company.**(20 Marks)**

4.3 Outline the procedure for handling rejected materials.

(30 marks)

4.4 State the steps in raw material issuance process.

(30 marks)

(100 marks)

(20 marks)

(20 marks)

(25 marks)

(35 marks)

Question 06**(100 marks)**

6.1 What are 'drum carriers'?

(20 marks)6.2 Mention the need for protecting some pharmaceuticals from **direct sunlight**.**(20 marks)**

6.3 Write a shotnote on 'product liability coverage' of insurance.

(30 marks)

6.4 Write a brief account on classification of pharmaceutical defects.

(30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
Workplace Communication Management – DPC 1253
1st Year 2nd Semester
SEQ Examination
3rd Batch

INDEX NUMBER:

Date: 26th April 2025

Time: 01.30 p.m. – 03.30 p.m. (Two Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01

(100 Marks)

1.1. What is the definition of communication?

(20 Marks)

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1.2 Mention the main components of communication.

(25 Marks)

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1.3 List **three (03)** effective communication skills.

(15 Marks)

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1.4 Mention the **four (04)** categories of communication with an example for each.

(40 Marks)

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Question 02**(100 Marks)**

2.1 What are Physical barriers in communication?

(20 Marks)

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2.2 Give **three (03)** examples of how semantic barriers affect communication in a pharmaceutical manufacturing team.

(30 Marks)

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2.3 What are the psychological barriers that influence communication?

(20 Marks)

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2.4 Provide **two (02)** examples of how psychological barriers can affect pharmaceutical practices.**(30 Marks)**

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Question 03**(100 Marks)**3.1 List **three (03)** instances where ICT tools can be used in the pharmaceutical industry. **(30 Marks)**

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- 3.2 Mention **three (03)** instances where ICT tools are used in Patient Care and Clinical Trials. (30 Marks)

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- 3.3 List **four (04)** future trends in ICT for the pharmaceutical industry. (40 Marks)

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Question 04 (100 Marks)

- 4.1 What is 'effectiveness'? (20 Marks)

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- 4.2 What is 'efficiency'? (20 Marks)

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- 4.3 List **four (04)** characteristics of an organisation's management information system. (20 Marks)

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- 4.4 List **four (04)** challenges in an organization's management information system. **(40 Marks)**

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Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1213
Anatomy
1st year 2nd Semester
End Semester SEQ Examination
3rd Batch

Index No:

Date : 26th April 2025
Time : 9.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers

Question 1 (100 marks)

1.1 Compare and contrast the following.

1.1.1 Cortical nephrons and Juxtamedullary nephrons (25 marks)

[illegible]

1.1.2 True ribs and False ribs (25 marks)

[illegible]

(25 marks)

[illegible]

(25 marks)

[illegible]

(100 marks)

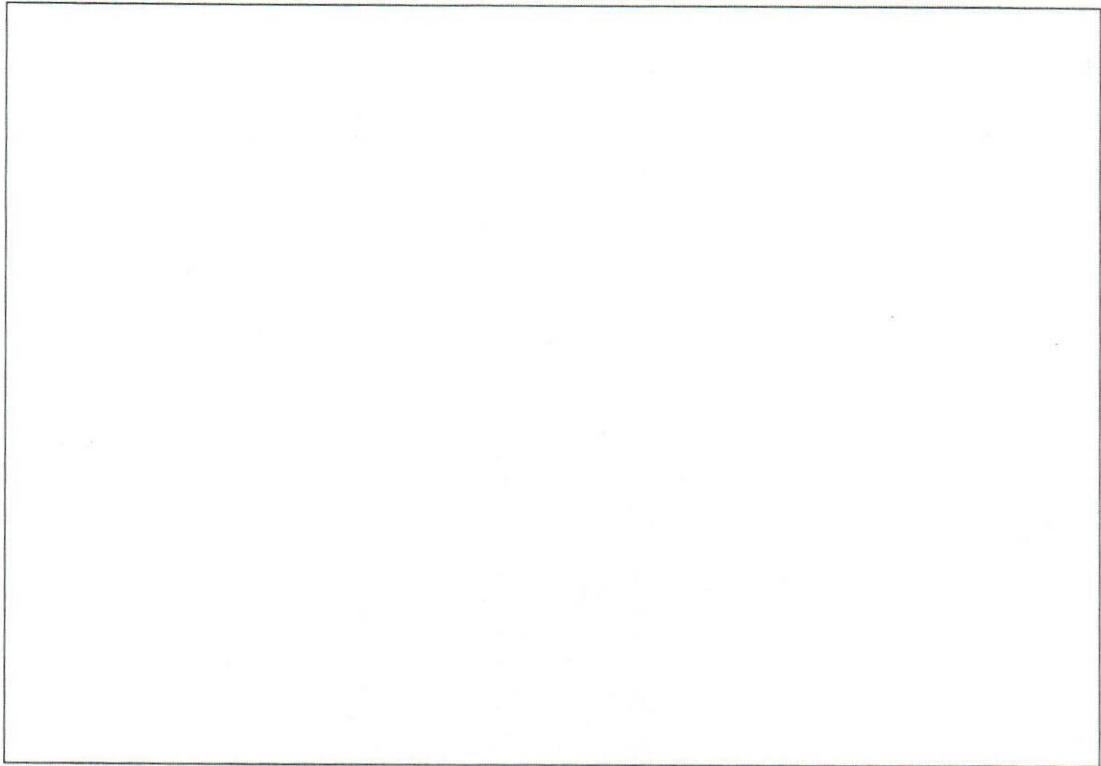
(25 marks)

[illegible]

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2.2 Draw a labeled diagram of animal cell.

(25marks)



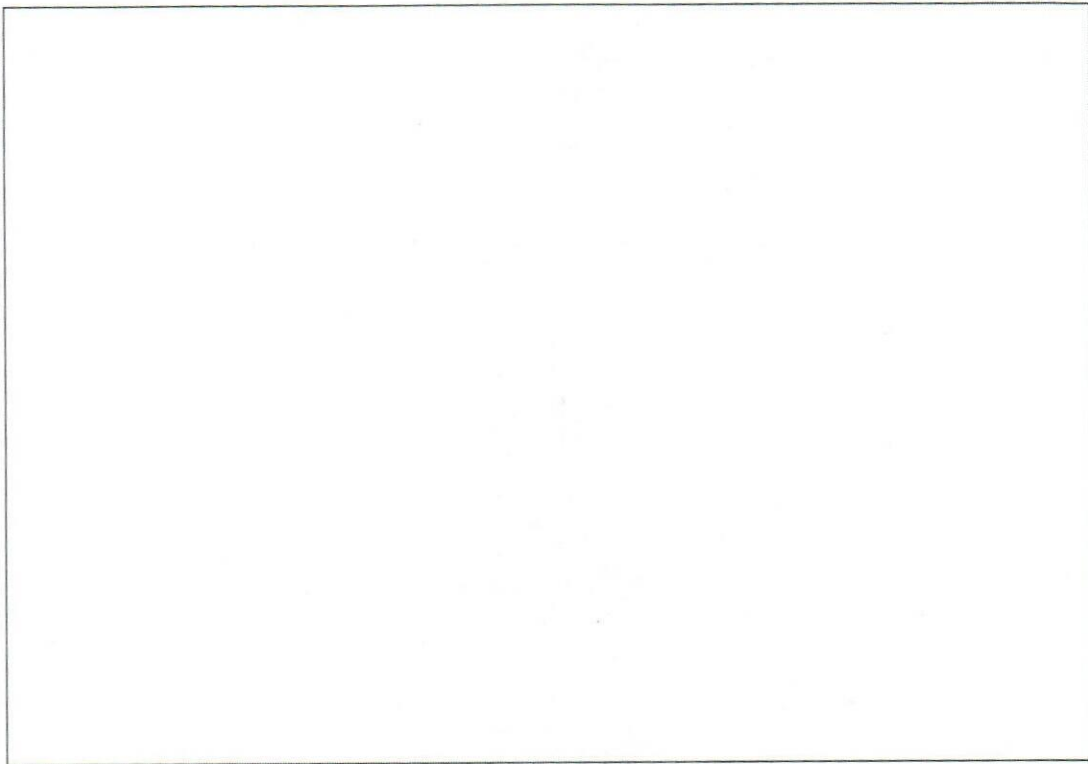
2.3 Illustrate the structure of a hepatic lobe.

(25 marks)



2.4 Draw a label diagram of a nephron.

(25 marks)



Question 3

(100 marks)

3.1 List main layers present in heart wall.

(15 marks)

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3.2 "Myocardium in left ventricle is thicker than the wall of right ventricle". What is the reason for that?

(25 marks)

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3.3 Write differences between artery and vein

(25 marks)

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3.4 Name bones in human thoracic cage.

(15 marks)

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3.5 What is a mediastinum?

(20 marks)

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Question 4

(100 marks)

4.1 What are the importances of gastric rugae?

(25 marks)

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4.2 Name different parts of small intestine and large intestine. (15 marks)

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4.3 Compare exocrine and endocrine pancreas. (25 marks)

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4.4 Write a short note on thyroid follicle. (20 marks)

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4.5 List main microscopic cell layers in adrenal cortex. (15 marks)

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Question 5

(100 marks)

5.1 How male urethra is differed from female urethra?

(25 marks)

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[illegible][illegible][illegible]

Question 6**(100 marks)**

6.1 State the structural diversity of animal cells, based on their functions, by giving 2 examples. (25 marks)

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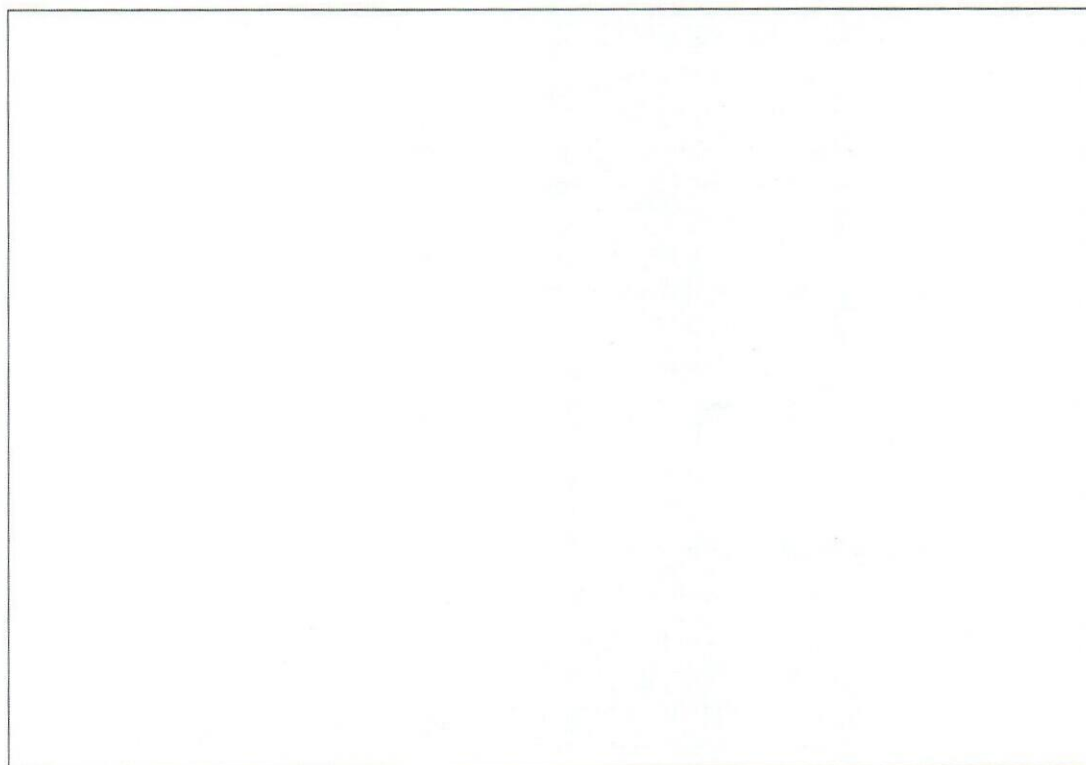
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6.2 Draw a labelled diagram of nucleus in a human cell.

(25 marks)



6.3 List main components in a synovial joint.

(25 marks)

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6.4 Write a short note on thymus.

(25 marks)

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Faculty of Health Sciences
Diploma in Pharmaceutical & Cosmetic Sciences
DPC 1223 Physiology
1st Year 2nd Semester
Batch – 03
End Semester Examination

Date: 27th of April 2025

Time: 09.00 am – 11.00 am – Two Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01

(100 Marks)

- 1.1 List **three (03)** main phases of the cardiac cycle.

(20 Marks)

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- 1.2 List the **four (04)** major components of conduction system of the heart.

(25 Marks)

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- 1.3 List **four (04)** functions of the human respiratory system.

(25 Marks)

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- 1.4 Differentiate **internal respiration** and **external respiration**.

(30 Marks)

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Question 02**(100 Marks)**

- 2.1 List **two (02)** hormones which are secreted by posterior pituitary gland.

(20 Marks)

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- 2.2 State the functions of the hormones stated in question number 2.1

(20 Marks)

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- 2.3 Compare the locations of intracellular fluid (ICF) and extracellular fluid (ECF).

(30 Marks)

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- 2.4 List **five (05)** components of the gastric juice.

(30 Marks)

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Question 03**(100 Marks)**

- 3.1 List **three (03)** types of cells present in bone tissue.

(20 Marks)

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- 3.2 List **one (01)** function of each organ.

(40 Marks)

3.2.1 Uterus

3.2.2 Ovary

3.2.3 Testes

3.2.4 Epididymis

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- 3.3 List three **(03)** phases of endometrial cycle.

(20 Marks)

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3.4 List three (03) functions of gastrointestinal system.

(20 Marks)

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Question 04

(100 Marks)

4.1 List **three (03)** functions of urinary system.

(30 Marks)

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4.2 Briefly describe **three (03)** phases of urine production.

(30 Marks)

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4.3 List **three (03)** types of muscle tissues in the body.

(20 Marks)

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4.4 List **three (03)** functions of bone and the skeletal system.

(20 Marks)

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