

PHB Education

Sample Paper-1

Session: 2024–25

Course: D. Pharm IInd Year

Subject: Biochemistry & Clinical Pathology

Exam: 3rd Sessional Question Paper-1

Attempt all the questions:

(Section: A)

Q. A Multiple Choice Questions:

[5]

1. All the following are important electrolytes in the body except:

- a) Potassium ions
- b) Carbon ions
- c) Chloride ions
- d) Sodium ions

2. Glycogenesis takes place in:

- a) Cytosol
- b) Ribosomes
- c) Mitochondria
- d) Endoplasmic reticulum

3. Iodine value is related to which of the following?

- a) Fats and oils
- b) Alcohols
- c) Esters
- d) Hydrocarbons

4. When the rate of synthesis of ketone bodies is more than its utilisation, it leads to:

- a) Colour blindness
- b) Diabetes
- c) Anaemia
- d) Ketonemia

5. Vitamin A is called.....

- a) Ascorbic acid
- b) Calciferol
- c) Retinol
- d) Tocopherol

Q.B Very Short Answer type questions:

[5]

1. Write the two functions of RNA.
2. Define enzyme inhibition.
3. Define the term Pathology.
4. Mention the name of two fat soluble vitamins.
5. Mention the therapeutic application of Streptokinase and Urokinase.

(Section: B)

Q. C Short Answer Type Questions: (Attempt any five)

[5 × 3 = 15]

1. Discuss in brief about abnormal constituents of urine.
2. Write the Molisch's test.
3. Define clearance. Give note on creatinine clearance.
4. Write the biological role of fatty acid.
5. Describe the functions of the following electrolytes-phosphorus and chloride.
6. Discuss the disease related to malnutrition of proteins.

(Section: C)

Q. D Long Answer Type Questions: (Attempt any three)

[5 × 3 = 15]

1. Write a brief note on scope of biochemistry in pharmacy.
2. Write the structure and functions of mitochondria.
3. Give the classification of amino acids based on chemical nature with suitable examples.
4. Discuss the applications of biotechnology in medicine & vaccine development.

PHB Education
Sample Paper-2
Session: 2024–25
Course: D. Pharm IInd Year
Subject: Biochemistry & Clinical Pathology
Exam: 3rd Sessional Question Paper-2

Attempt all the questions:

(Section: A)

Q. A Multiple Choice Questions:

[5]

1. RNA does not contain.....:

- | | |
|------------|------------|
| a) Ribose | b) Adenine |
| c) Thymine | d) Uracil |

2. Deficiency of Vitamin C causes.....

- | | |
|----------------|-------------|
| a) Beri - Beri | b) Scurvy |
| c) Rickets | d) Pyroheia |

3.acts as a cofactor of antioxidant enzymes.

- | | |
|---------------|--------------|
| a) Molybdenum | b) Iron |
| c) Copper | d) Manganese |

4. Citric acid cycle is also called as.....

- | | |
|---------------------|---------------|
| a) Krebs cycle | b) TCA cycle |
| c) Glycolysis cycle | d) Both a & b |

5. ORS is used for treating:

- | | |
|-------------|--------------|
| a) Jaundice | b) Diarrhoea |
| c) Typhoid | d) Plague |

Q. B Very Short Answer type questions:

[5]

1. Which one is the heaviest particulate component of the cell?
2. Explain the term polycythemia.
3. Mention the functional unit of kidney.
4. Bile is secreted by which organ?
5. Write the general formula of Polysaccharide.

(Section: B)

Q. C Short Answer Type Questions: (Attempt any five)

[5 × 3 = 15]

1. Discuss the glycolysis cycles.
2. Discuss the absorption & excretion of iron.
3. List the various enzymes used for diagnostic purpose.
4. Write the causes, symptoms and treatment of dehydration.
5. Write a short note on vitamin C.
6. Explain the biological role of DNA & RNA.

(Section: C)

Q. D Long Answer Type Questions: (Attempt any three)

[5 × 3 = 15]

1. Discuss the functions of calcium, sodium, iron and zinc in our body.
2. Discuss the mechanism of action of enzymes.
3. Write in brief about biological oxidation and obesity.
4. Give the classification of carbohydrates and briefly explain glucose.