

PHB Sample Paper

Session: 2022 – 23

Course: D. Pharm IInd Year

Subject: BIOCHEMISTRY & CLINICAL PATHOLOGY

Exam: 1st Sessional Question Paper- 2**Attempt all the questions:****(Section: A)****(MCQ) MULTIPLE CHOICE QUESTIONS.****[5]****1. Which is the reducing sugar?**

- | | |
|-------------|---------------|
| a. Glucose | b. Sucrose |
| c. Fructose | d. Both a & c |

2. Lactose is the composition of Starch is the polymer of:

- | | |
|------------------------|-----------------------|
| a. Glucose & Galactose | b. Fructose & Glucose |
| c. Sucrose & Maltose | d. Only glucose |

3. Human blood contains maximum sugar.

- | | |
|----------------|-------------|
| a. Sucrose | b. Fructose |
| c. D - Glucose | d. Lactose |

4. It is an aromatic amino acid.

- | | |
|-------------|------------------|
| a. Glycine | b. Cysteine |
| c. Tyrosine | d. Glutamic acid |

5. Fat is:

- | | |
|----------|----------------|
| a. Acid | b. Alcohol |
| c. Ester | d. Hydrocarbon |

VERY SHORT ANSWER TYPE QUESTIONS:**[5]**

1. Write the basic structure of amino acid.
2. Glucose react with phenylhydrazine to form osazone. Write its name & colour.
3. Starch is consisting of two components namely _____ & _____
4. Write the name of the prosthetic group present in lipoproteins.
5. What is the invert sugar?

(Section: B)

Short questions (Attempt any five)

[5x3=15]

1. Distinguish between oils and fats.
2. Write a short note on glucose chemistry.
3. Write a short note on lipoproteins.
4. Describe the disease caused due to deficiency of protein in the diet.
5. Difference between fibrous & globular proteins with example.
6. Write the structure of following compounds:
 - a. Maltose
 - b. Lactose
 - c. Fructose

(Section: C)

Long questions (Attempt any three)

[3x5=15]

1. Discuss the Qualitative tests for carbohydrate.
2. Define carbohydrates and give their classification with examples.
3. Give the classification of proteins and amino acids with explanation of amino acids.
4. Define lipids. Write their classification and function.