

## PHB Sample Paper

Session: 2022 – 23

Course: D. Pharm IIInd Year

Subject: BIOCHEMISTRY & CLINICAL PATHOLOGY

Exam: Ist Sessional Question Paper- 1

**Attempt all the questions:**

**(Section: A)**

**(MCQ) MULTIPLE CHOICE QUESTIONS.**

**[5]**

1. The store house of energy in a cell is:

- a. Nucleus
- b. Mitochondria
- c. Golgi bodies
- d. Centrosome

2. Starch is the polymer of:

- a. Glucose
- b. Fructose
- c. Sucrose
- d. Cellulose

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. Why is glucose given to a patient on becoming too weak?

4. Write the name of the prosthetic group present in lipoproteins.

5. Write the example of fat.

**(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.
6. Explain the following with their structure:
  - a. Galactose
  - b. Sucrose
  - c. Fructose

**(Section: C)**

**Long questions (Attempt any three)**

**[3x5=15]**

1. What do you understand by biochemistry? Describe the scope of biochemistry.
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.

