

PHB Sample Paper - 1

D. Pharm IInd Year, THIRD SESSIONAL EXAMINATION, 2022 - 23
(BIOCHEMISTRY & CLINICAL PATHOLOGY)

Time: 02 Hrs**Maximum Marks: 40****Instructions:**

1. Write the Roll no. on your question paper.
2. Candidate should ensure that the question paper supplied to them is complete in all respects. Complaints in this regards, if any, should be made to the invigilatory staff on the duty in the exam centre within 15 minutes of Commencement of the exam. No complaint shall be entertained thereafter.

(Section: A)**Q. A Very short answer type questions:****(5)**

1. Who coined the word cell?
2. Who cracked the genetic code?
3. FVD stands for:
4. What is the net gain of ATP during the conversion of glucose to pyruvate?
5. Where does gluconeogenesis take place?

Q. B Fill in the blank:**(5)**

6. The protein that catalyses the chemical reactions are known as _____.
7. _____ is often named as the silent nutrient of the body.
8. The most basic amino acid is _____.
9. Name the epimer of carbohydrates _____.
10. Monocytes are also known as _____.

(Section: B)**Q. C Short Answer Type Questions: (Attempt any five)****(5 × 3 = 15)**

1. Write short note on: **(Any three)**
 - a) O.R.S.
 - b) Water turnover
 - c) Urea cycle
 - d) Glycogenesis
2. Explain about glycolysis cycle.
3. What are coenzymes? Gives any two examples.
4. Explain the factor affecting enzyme activity.
5. Explain the biological role of DNA and RNA.

6. Write short on:

- a) Biological role of amino acids
- b) Cholesterol
- c) Osazone formation

(Section: C)

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

(5 × 3 = 15)

1. Briefly describe HMP pathway with its significance.
2. Briefly explain the role, source and deficiency disease of each vitamin.
3. Write a detailed note on IUB classification of enzymes.
4. What are lipids? Classify them and give their biological significance.