

H-BP-203

B. Pharma (Semester-II) Examination, 2022

PAPER-III

BIOCHEMISTRY

Time Allowed : Three Hours

Maximum Marks : 75

Minimum Passing Marks : 28

PART – A

Note: Answer all questions. (10 x 2 = 20 Marks)

1. What are essential amino acids? Give any four examples.
2. What are derived lipids?
3. Draw the structure of purines.
4. What are nucleosides and nucleotides?
5. Write any two functions of proteins.
6. What is meant by oxidative phosphorylation?
7. What are codons? Give examples of start and stop codons.
8. What are polyunsaturated fatty acids?

9. Give two differences between homopolysaccharides and heteropolysaccharides? Give examples
10. What are peroxidases?

PART – B

Note: Answer any two questions. (2 x 10 = 20 Marks)

1. Discuss the process of glycolysis along with the enzymes involved in the process.
2. Give a detail account on structure and classification of amino-acids.
3. Discuss the structure of DNA with well labelled diagram. Also describe the role of DNA as a genetic material

PART – C

Note: Answer any seven questions. (7 x 5 = 35 Marks)

1. Discuss the role of enzymes as biocatalyst.
2. Describe urea cycle.

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3. Discuss the primary structure of proteins.
4. Explain electron transport chain and its significance.
5. Describe HMP-shunt.
6. Explain the biological functions of carbohydrates.
7. Describe allosteric inhibition.
8. Give a brief account on properties of genetic codes.
9. Give a brief account on energy rich molecules in biological system.