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SUBJECT CODE NO: - BNP-2739
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (NEP) (P-2024) S.Y Sem III
Examination November / December 2025
Zoology (Fundamentals of Biochemistry)

[Time:1 Hour]**[Max. Marks:30]**

N. B

Please check whether you have got the right question paper.

- i) Q.1 is multiple choice objective type and it is compulsory
 ii) Attempt any four from Q.2 to Q.7 Each of these questions carries 5 marks.
 iii) Figures to the right indicate full marks.

PART-A

Q1 Attempt all MCQS.

10

- 1) -----measures disorder in a system
 a) coupling b) Entropy c) Cot Curve d) All the above
- 2) A polar substance that interacts readily with or dissolves in water -----
 a) Hydrophobia b) Hydrophilic
 c) Lipophilic d) Lipophobic
- 3) Ratio of Carbon to hydrogen to oxygen is -----in Carbohydrates molecules
 a) 1:2:1 b) 2:1:1 c) 1:2:2 d) 2:1:2
- 4) Lipids are a group of diverse macromolecules consisting of fatty acids and their derivatives that are -----
 a) Insoluble in alcohol b) Insoluble in water
 c) Insoluble in organic solvent d) None of above.
- 5) A nucleoside consists of
 a) Nitrogenous base
 b) Purine or pyrimidine base + sugar.
 c) Purine or pyrimidine base + phosphorous
 d) purine + pyrimidine base + Sugar + phosphorus.

PART-B

Attempt any four

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|--|---|
| Q2 Explain the solvent properties and hydrogen bonds in water. | 5 |
| Q3 Describe the structure and function of glycogen. | 5 |
| Q4 Explain the general properties of α -amino acid | 5 |
| Q5 Write a note on structure of nucleosides. | 5 |
| Q6 Explain types of DNA with diagram. | 5 |
| Q7 Write a note an enzyme inhibition | 5 |

