

ZOO-II-001
B.Sc. II Semester (NEP) Degree Examination
ZOOLOGY
Biochemistry and Physiology

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. Answer All the sections.
2. Draw diagrams wherever necessary.

SECTION - A**I. Answer any FIVE of the following questions.****(5×2=10)**

1. Write the important function of saliva.
2. What is the concept of K_m and V_{max} .
3. Define Non - essential aminoacids. Name any two non - essential aminoacids.
4. Give two biological importance of monosaccharides.
5. Expand $NADPH_2$.
6. What is transamination? Write its general features.
7. Write the sources of vitamin 'C'.

SECTION - B**II. Answer any FOUR of the following questions.****(4×5=20)**

8. Explain the structure and biological importance of unsaturated fatty acid.
9. Describe the steps involved in formation of Urea.
10. Write a note on absorption digested proteins and carbohydrates.
11. Explain the ultrastructure of Nephron.
12. Explain ABO blood groups in human.
13. Describe the structure of neuron.

SECTION - C

III. Answer any **THREE** of the following questions.

(3×10=30)

14. Explain factors affecting the rate of enzyme - catalyzed reaction.
15. Enumerate the pathway of citric acid cycle.
16. Describe the structure of skeletal muscle.
17. Write the different respiratory volumes and capacities.
18. Give an account of action potential and its propagation.