



**B.Sc. II Semester Degree Examination, September/October - 2023**

**ZOOLOGY**

**Biochemistry and Physiology**

**(NEP)**

Time : 2 Hours

Maximum Marks : 60

**Note :** (i) Answer **all** Sections.

(ii) Draw diagrams wherever necessary.

**SECTION - A**

1. Answer the following sub-questions in **one word** or **one sentence** each. **10x1=10**
- (a) Expand DGL.
  - (b) Who coined the term Enzyme ?
  - (c) Define Glycogenolysis.
  - (d) What do you mean by Transamination ?
  - (e) Mention the bile pigments in bile juice.
  - (f) What is stroke volume ?
  - (g) Expand RMP.
  - (h) What is tetanus ?
  - (i) What is Sphygmomanometer ?
  - (j) Which hormone is considered as pregnancy hormone ?

**SECTION - B**

Answer **any four** of the following questions.

**4x5=20**

- 2. Write a short note on the biological significance of carbohydrates.
- 3. Sketch and label the Krebs's Cycle (Citric Acid cycle).
- 4. Explain the process of protein digestion in man.



**P.T.O.**

5. Define Haemopoiesis. Explain the process involved in Haemopoiesis.
6. Write the differences between Smooth muscle and Skeletal muscle.
7. Explain briefly about the female reproductive organ.

**SECTION - C**

Answer **any three** of the following questions.

**3x10=30**

8. Explain briefly about the induced fit theory of enzyme action.
9. Give an account of the transport of CO<sub>2</sub> in blood with the schematic representation.
10. Explain the structure of multipolar neuron with a neat labelled diagram.
11. Describe the process of spermatogenesis with the schematic representation.
12. Write an explanatory note on urea cycle.

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