

M.Sc. (Zoology) (NEP Pattern) Semester-I
NEP-82 / 01MSCZO02 - Core DSC Paper-II - General Physiology

P. Pages : 1

Time : Three Hours



GUG/W/24/15144

Max. Marks : 80

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- Notes :
1. All questions carry equal marks.
 2. All questions are compulsory.
 3. Draw well labelled diagram wherever necessary.

1. Give detailed structure of hemoglobin & mechanism of O₂ transport. 16

OR

- a) Mechanism of enzyme action
- b) Mechanism of synaptic transmission

2. Describe thermoregulation in Poikilotherms and homeotherms in detail. 16

OR

- a) Osmoregulation in Pisces.
- b) Molecular mechanism of steroid hormonal action.

3. Describe transamination and Deamination. 16

OR

- a) ECG pacemaker and heart valves
- b) Electron Transport System

4. Give a detailed account of Reflex Action. 16

OR

- a) Composition & function of Cerebrospinal fluid
- b) Explain water electrolyte balance

5. Write short notes on- 16

- a) Chemical nature of neurotransmitter.
- b) Light producing organs in invertebrates.
- c) Oxidative deamination
- d) Resistance & Tolerance
