

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

P. Pages : 1

Time : Three Hours



GUG/W/23/15144

Max. Marks : 80

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

1. Explain the differed factors affecting enzyme action. **16**

OR

Write short notes on:

- a) Types of Respiratory pigments.
- b) Mechanism of synaptic transmission.

2. Describe the light producing organs in invertebrates. **16**

OR

Write short notes on:

- a) Mechanism of salt and water transport by gills in Pisces.
- b) Membrane receptors and signal transduction.

3. Explain the Phases of cardiac cycle. **16**

OR

Write short notes on:

- a) Glycogenesis.
- b) Arginine-ornithine cycle.

4. Explain the Chemistry and functions of Cerebrospinal fluid. **16**

OR

Write short notes on:

- a) Mineral metabolism in bone.
- b) Mechanism of reflex action.

5. Attempt all the following. **16**

- a) Structure & physiology of melanophores.
- b) Thermoregulation in poikilotherms.
- c) Digestion carbohydrate in the gastrointestinal tract.
- d) Physiology of environmental stress and strain.
