

M.Sc.(Zoology) (CBCS Pattern) Semester - I
PSCZOOT02 - General Physiology Paper-II

P. Pages : 1

Time : Three Hours



GUG/S/23/11176

Max. Marks : 80

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

1. Describe in detail the colour change mechanism in invertebrates and vertebrates. **16**

OR

Write notes on: -

- a) Factors affecting enzyme action.
- b) Types of respiratory pigments.

2. Describe in detail the thermos-regulation in Poikilotherms and homeotherms. **16**

OR

Write notes on:

- a) Light producing organs in invertebrates.
- b) Peptide hormones.

3. Describe the phases of cardiac cycle & add a note on heart valves. **16**

OR

Write notes on:

- a) Cholesterol metabolism.
- b) Glycogenesis.

4. Describe in detail the chemistry and functions of cerebrospinal fluid. **16**

OR

Write notes on: -

- a) Mechanism of reflex action.
- b) Mineral metabolism in bone and egg shell formation.

5. Attempt the following. **16**

- a) Synaptic Transmission.
- b) Osmoregulation in Pisces.
- c) Digestion of carbohydrates.
- d) Physiological Adaptations.
