

M.Sc. (Zoology) First Semester Old  
**ZOO-02 - General Physiology Paper-II**

P. Pages : 1

Time : Three Hours



**GUG/W/18/2195**

Max. Marks : 80

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

1. Write an essay on respiratory pigment. 16

**OR**

Write notes on:

- a) Factors affecting enzyme action.
- b) Chemical nature and biosynthesis of Neurotransmitters.

2. Describe light producing organs in animals and its physiology. 16

**OR**

Write notes on:

- a) Thermoregulatory mechanism.
- b) Osmoregulation in pieces.

3. Describe in details the classification & metabolism of carbohydrates with reference to glycolysis. 16

**OR**

Write notes on:

- a) Digestion & absorption of lipids.
- b) Arginine -ornithine cycle.

4. Write an essay on cardiac cycle. 16

**OR**

Write notes on

- a) Function of cerebrospinal fluid.
- b) Mechanism of reflex action.

5. Attempt the following. 16

- a) Chromatophores.
- b) Steroid Hormones.
- c) Oxidation of fatty acids.
- d) Resistance and Adaptation.

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