

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

P. Pages : 1

Time : Three Hours



**GUG/S/25/11176**

Max. Marks : 80

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

**1. Write an essay on respiratory pigments. 16**

**OR**

Write a notes on:

- a) Neurotransmitters **8**
- b) Classification of Enzymes **8**

**2. Give a brief account on bioluminescence. 16**

**OR**

Write a notes on:

- a) Osmoregulation in Pisces **8**
- b) Thermoregulation in poikilotherms and homeotherms **8**

**3. Write an essay on cardiac cycle. 16**

**OR**

Write a notes on:

- a) TCA cycle **8**
- b) Arginine - ornithin cycle **8**

**4. Give a brief account on mechanism of reflex action. 16**

**OR**

Write a notes on:

- a) Functions of Cerebrospinal Fluid **8**
- b) Physiology of environmental stress. **8**

**5. Attempt the following: 16**

- a) Chromatophores
- b) Membrane - receptors
- c) Digestion of carbohydrate in GI-tract
- d) Egg shell formation

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