



Reg. No.: .....

Name : .....

**Second Semester M.Sc. Degree Examination, October 2018**

**Branch : Zoology**

**ZO 221 : ADVANCED PHYSIOLOGY AND FUNCTIONAL ANATOMY**

**(2013 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 75

SECTION – A

- I. Write very brief notes on **any ten** of the following. **Each** question carries **2** marks. **(10×2=20 Marks)**
- 1) Cytoskeleton
  - 2) Saltatory locomotion.
  - 3) Causes of obesity.
  - 4) Neatly labelled diagram of haemopoiesis.
  - 5) Haemodialysis.
  - 6) Bernad Katz's Experiment.
  - 7) X-Organ.
  - 8) Simple eye of invertebrates.
  - 9) Pain receptors.
  - 10) Cochlear nuclear complex.
  - 11) Prostate gland.
  - 12) Role of androgen in women.
  - 13) Amniocentesis.
  - 14) Stress response system.
  - 15) Dope test.



## SECTION – B

II. Write short notes on **any six** of the following. **Each** question carries **4** marks. **(6×4=24 Marks)**

- 16) Respiratory centres.
- 17) Glomerular Filtration Rate.
- 18) Principle of hydrostatic skeleton.
- 19) Amoeboid movement.
- 20) Power stroke of muscle contraction.
- 21) Types of feeding in protozoans.
- 22) Juxtamedullary nephrons.
- 23) Estrogens.
- 24) Dead space.
- 25) Antifreeze proteins.

## SECTION – C

III. Write Short essays on **any three** of the following. **Each** question carries **7** marks **(3×7=21 Marks)**

- 26) Locomotion in fishes.
- 27) Transcellular fluids.
- 28) Mechanism of action of steroid hormones.
- 29) Stroke.
- 30) Oxyhaemoglobin dissociation curve.

## SECTION – D

IV. Write an essay on **any one** of the following. **Each** question carries **10** marks. **(1×10=10 Marks)**

- 31) Physiology of hearing.
  - 32) Gastro-Intestinal hormones.
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