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ZOS 454

**Second Semester M.Sc. Examination, September/October 2022
(CBCS)
ZOOLOGY
Comparative Physiology**

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer *all* questions.
2) Give illustrations *wherever* necessary.

I. Write short notes on : **(5×2=10)**

- a) Cholecystokinin.
- b) Dead space.
- c) Distal convoluted tubule.
- d) Catecholamines.
- e) Pineal gland.

II. a) Write an account on digestion and absorption of lipids. **12**

OR

Write notes on :

- b) Inflammatory Bowel's disease.
- c) Absorption of carbohydrates.

III. a) Give a detailed account of physiology of O₂ and CO₂ transportation. **12**

OR

Write notes on :

- b) Dissociation curve.
- c) Tidal volume.

P.T.O.



IV. a) Explain osmoregulation in aquatic animals.

12

OR

Write notes on :

b) Uricotelism.

c) Tubular secretion.

V. a) Give an account of endocrine regulation in insect metamorphosis.

12

OR

Write notes on :

b) Mechanism of action of water soluble hormone.

c) Storage and secretion of hormones.

VI. a) Describe the molecular mechanism of fertilization in mammals.

12

OR

Write notes on :

b) Types of ovarioles.

c) Intrauterine devices.
