

(6 pages)

Reg. No. :

Code No. : 7904

Sub. Code : PZOM 14

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

First Semester

Zoology – Core

ENDOCRINOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Gigantism is a disorder caused by the over activity of pituitary in the
 - (a) Child
 - (b) Adult
 - (c) Enlargement
 - (d) Normal

2. Thyroid gland was described by
 - (a) T.H. Morgan
 - (b) Robert brown
 - (c) Thomas Wharton
 - (d) Land Stainer
3. In amphibians, thyroxine brings about
 - (a) Hypoma
 - (b) Metamorphosis
 - (c) Asphyxia
 - (d) Bald
4. Molluscan forms also contain gland like
 - (a) Optic gland
 - (b) Spinal nerves
 - (c) Duramater
 - (d) Piamater
5. Thymosin is involved in the regulation of
 - (a) Oestrogen
 - (b) Relaxin
 - (c) Neuromuscular Transmission
 - (d) Chronic Thyrotropin
6. The excess salt is removed by
 - (a) Chloride secretory cells
 - (b) Endosmosis
 - (c) Carcinus
 - (d) Astacus

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7. Removal of parathyroid gland of the gland causes
(a) Graves (b) Cretinism
(c) Tetany (d) Frohlich
8. Synthesis of carbohydrates from proteins and fats is called
(a) Pyruvic acid (b) Kreb cycle
(c) Gluconeogenesis (d) Glycolysis
9. The conversion of muscle glycogen into liver glycogen and vice versa is called
(a) Carbon cycle
(b) Nitrogen cycle
(c) Cori cycle
(d) Synaptic cycle
10. The animals which cannot maintain a constant volume of internal body fluid are called
(a) Homeotherm
(b) Poikilosmotic
(c) Heterotherm
(d) Euryhaline

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

Draw diagram wherever necessary.

11. (a) Explain the hormones secreted by pituitary gland.
Or
(b) Describe the process of osmoregulation in fishes.
12. (a) Give an account of endocrine organs in Insects.
Or
(b) Describe how the temperature regulation is effected in mammals.
13. (a) Classify endocrine system with examples.
Or
(b) What are the significance of regeneration?
14. (a) Explain the general and principles of hormones action.
Or
(b) Describe the cell signaling and hormonal action.



15. (a) Write short notes on adino hypophysis.

Or

- (b) Explain Hormones regulation on migration with suitable example.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

Draw diagram wherever necessary.

16. (a) Give the details of the hormones of pregnancy and lactations.

Or

- (b) Describe the ovarian cycle.

17. (a) Give in detail structure and function of parathyroid.

Or

- (b) Pancreas acts as an endocrine and exocrine gland justify the statement.

18. (a) Explain the histo architecture of gonads.

Or

- (b) Describe the molecular mechanism involved in insect metamorphosis.

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19. (a) Write an account on medulatory hormones and their importance.

Or

- (b) Describe anterior stimulatory hormones.

20. (a) Write an account on insulin.

Or

- (b) Write an account on peptide hormones.

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