

M.Sc. Semester-II (CBCS Scheme) Examination

ZOOLOGY

(Endocrinology)

Paper-VII

Time : Three Hours]

[Maximum Marks : 80

- Note :—** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Draw labelled diagrams wherever necessary.

1. Give an account of the following :

- (a) Hormones of placenta.
- (b) Melatonin as an antioxidant.
- (c) Histology of Thyroid gland.
- (d) Urophypophysis.

OR

- (e) Histology of Neurohypophysis.
- (f) Jet lag.
- (g) Corpuscles of Stannius in fishes.
- (h) Hormones of ovary.

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2. Explain the following :

- (i) Classification of Hormones.
- (j) Intracellular receptors.
- (k) Cholecystokinin.
- (l) Hormonal regulation of carbohydrate metabolism.

OR

- (m) Hormones in Biological clock.
- (n) Hormonal regulation of growth.
- (o) Hormone action at genetic level.
- (p) Hormonal regulation of male-reproduction.

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3. Explain synthesis, transport and metabolism of T_3 and T_4 .

OR

Write synthesis, transport (release) and metabolism of epinephrine.

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4. Explain the following :

- (q) Type II Diabetes.
- (r) Adrenal medullary hormones.
- (s) Parathyroid disorders.
- (t) ACTH.

OR

- (u) Hormones from Neurohypophysis.
- (v) Cushing Syndrome.
- (w) Non steroid hormones in reproduction.
- (x) Autoimmune diabetes.

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5. Describe Neuroendocrine mechanism in insect metamorphosis.

OR

Describe Hormone Replacement Therapy, its risks and benefits.

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