

AQ-899

M.Sc. (Part—I) Semester—II Examination

(CBCS Scheme)

ZOOLOGY

Paper—VII

(Endocrinology)

Time—Three Hours]

[Maximum Marks—80

N.B. :— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Draw labelled diagrams wherever necessary.

1. Explain the following :

(a) Histology of adrenal gland

(b) Placental hormones

(c) Insulin

(d) Histology of neurohypophysis. 16

OR

(e) Cell types in adenohypophysis

(f) Role of melatonin in sleep disturbances

(g) Leydig's cells

(h) Histophysiology of Urohypophysis.

2. Explain hormone action at genetic level. 16

OR

Give an account on hormonal regulation of male and female reproduction.

3. Describe the synthesis and metabolism of T_3 and T_4 hormones. 16

OR

Give an account of synthesis, transport and metabolism of epinephrine.

4. Explain the following :
(i) Addison's Disease
(j) Goiter
(k) Diabetes Type-I
(l) Parathyroid Hormones 16

OR

- (m) Steroid hormones in reproduction
(n) Hormones of neurohypophysis
(o) Diabetic kidney problems
(p) Hormones of adrenal medula.

5. Give an account of the following :
(q) Benefits of hormone replacement therapy with reference to menopause.
(r) Neuroendocrine hormones in insects.
(s) Hormonal control of amphibian metamorphosis
(t) Erythropoietin. 16

OR

- (u) Risks of hormone replacement therapy.
(v) Neuroendocrine control of crustacean metamorphosis.
(w) Angiotensin.
(x) ANF.