

Total No. of Printed Pages—3

**5 SEM TDC ZOO M 7**

**2 0 1 3**

( November )

ZOOLOGY

( Major )

Course : 507

( **Endocrinology** )

Full Marks : 48

Pass Marks : 19

Time : 2 hours

*The figures in the margin indicate full marks  
for the questions*

Answer Question No. 1 and *any two* from the rest

1. (a) Fill in the blanks : 1×5=5

- (i) Oversecretion of cortisol in man leads to a disorder called —.
- (ii) Medullary hormones of adrenal are chemically derived from amino acid —.
- (iii) Insulin is secreted by — cells of islets of Langerhans.

(iv) — is another name of hormone vasopressin.

(v) In insect the hormone ecdysone is secreted by —.

(b) Rewrite the sentences with correct option : 1×4=4

(i) Progesterone is secreted by corpus luteum / pars nervosa / adrenal medulla.

(ii) Relaxin is chemically a peptide / a steroid / an amino acid derivatives.

(iii) Ovarian hormones are C-17 / C-18 / C-21 type.

(iv) The two polypeptide chains of insulin monomer have two / three / one interchain disulfide bridges.

(c) Write short notes on (any three) : 3×3=9

(i) Hyperglycemic agent

(ii) IVF

(iii) Human chorionic gonadotropin (HCG)

(iv) Hypoparathyroidism

(v) Thyroglobulin



2. Give a comparative anatomy of pituitary gland of fish, amphibia and mammal with suitable diagram. Write the names of the hormones secreted by adenohypophysis and their main functions. 6+9=15
  
3. What is meant by hypothalamohypophyseal portal system? Discuss briefly the regulatory factors secreted by hypothalamus and their function. 3+6+6=15
  
4. Mention the name and chemical nature of female sex hormone. Discuss the role of hormones during pregnancy and parturition. 3+6+6=15
  
5. Describe the neuroendocrine system of insects and the role of hormones in their growth. 8+7=15

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