5 SEM TDC ZOO M 7

2014

(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 three from the rest

1. (a) Fill in the blanks:

 $1 \times 5 = 5$

- (i) The hormone is also secreted by thyroid along with T_3 and T_4 .
- (ii) HCG is secreted by —.
- (iii) Cushing's syndrome in man developed due to hypersecretion of ——.

- (iv) Lepidemia is a disorder caused by hyposecretion of —.
- (v) As a result of hypersecretion of thyroid hormone leads to a disease condition called exophthalmic goiter or —.
- (b) Rewrite the sentences with correct option: 1×4=4
 - (i) δ-cells of the islets of Langerhans secrete the hormone glucagon/insulin/somatostatin.
 - (ii) Oxytocin and vasopressin both are chemically octapeptide/steroid/protein.
 - (iii) ACTH is chemically a simple protein/peptide/ glycoprotein.
 - (iv) Pituicytes are neurosecretory cells found in pars distalis/pars intermedia/pars nervosa of the pituitary gland.
- (c) Write short notes on (any three): 3×3=9

dell Kushing's

- (i) Amniocentesis
- (ii) Contraception
- (iii) Prolactin
- (iv) Progesterone

- Compare the anatomy of thyroid in fish, amphibia and mammal.
- 3. What are the hormones secreted by pancreas of man? Discuss briefly the metabolic regulations they have performed. 2+8=10
- 4. What do you mean by hormone? Discuss the mechanism of action of peptide, steroid and amine hormone.

 1+4+2½+2½=10
- 5. (a) What are the prothoracic glands?

 Discuss the functions of juvenile hormones of insects. 2+4=6
 - (b) "Moulting hormones are responsible for the metamorphosis in insects."

 Justify it. 4
