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## 5 SEM TDC ZOO M 7

2016

( November )

ZOOLOGY

( Major )

Course: 507

(Endocrinology)

Full Marks: 48

Pass Marks: 19 (Backlog)/14 (2014 onwards)

Time: 2 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and any three from the rest

- L. (a) Fill in the blanks: 1×5=5
  - (i) The growth hormone is chemically a globular protein secreted by \_\_\_\_\_ cells of the adenohypophysis.
  - (ii) In pigeons and dove, the secretion of crop milk is stimulated by \_\_\_\_\_ hormone.

( Turn Over )

- (iii) The hormones of parathyroid glands are mainly responsible for metabolism of phosphate and \_\_\_\_\_.
- (iv) The two polypeptide chains of active insulin are actually derived from a single polypeptide molecule called
- (v) Epinephrine and norepinephrine also called catecholamine secreted by adrenal \_\_\_\_\_.
- (b) Rewrite the following sentences with correct option:
  - (i) The thickening and puffiness of skin in adult human being is due to hyperthyroid/hypothyroid/ hypoadrenal activity.
  - (ii) Cushing's disease is due to hypersecretion of thyroid hormones/ glucocorticoids/mineralocorticoids.
  - (iii) Prothoracic or thoracic gland of arthropods secretes a hormone, popularly known hormone / moulting-hormone /

- (iv) All the hormones secreted by adrenal cortex are chemically protein/steroid/amino acid derivatives in nature.
- (c) Write short notes on any three of the following:
  - (i) Corpora allata
  - (ii) Oral contraceptive
  - (iii) Corpus luteum
  - (iv) Neurosecretory cell
  - (v) Islets of Langerhans
- 2. What do you mean by trophic hormone? Why somatotrophic hormone? Discuss in brief the states of hypo- and hyper-secretion of growth 2+2+6=10
- 3. What is hypothalamohypophyseal portal Discuss the mechanism of regulation of adenohypophyseal hormone 2+6+2=10 Secretion with suitable diagram.
- 4. Name the hormones concerned with maintenance of pregnancy, parturition and lactation with their chemical nature. Describe briefly the mechanism of hormone Concerned with pregnancy and parturition. 6+4=10

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- 5. What is amniocentesis? Describe its method or protocol. Mention the merits of amniocentesis.
- 6. Write an account of comparative anatomy of pituitary/thyroid gland in fishes, Amphibia and mammals with suitable diagram. 8+2=10

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