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5 SEM TDC ZOO M 7

2019

(November)

ZOOLOGY

(Major)

Course : 507

(Endocrinology)

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

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

Answer Question Nos. **1** and **6**,
and any **three** from the rest

1. (a) Fill in the blanks : 1×5=5

(i) _____ are the neurosecretory cells
present in pars nervosa of pituitary
gland.

(ii) Hypersecretion of cortisol leads to a
disease called _____.

(iii) Graves' disease is caused by hypersecretion of _____ hormone.

(iv) Estrogen is secreted from _____ cells of ovary.

(v) 'Ecdysone' hormone of insects is secreted from _____ gland.

(b) Write short notes on any *two* of the following : 4×2=8

(i) Amniocentesis

(ii) Functions of pituitary hormones

(iii) Conn's syndrome

(iv) Functions of thyroid hormones

2. Write a comparative account of thyroid gland of Amphibia and Mammalia with suitable diagram. 9

3. What is second messenger? Discuss the mechanism of action of hormones of cell surface receptor and cytosolic receptor. 1+8=9

4. Write the name of hormones secreted by the pancreas in man. Write about metabolic functions of pancreatic hormones. 1½+7½=9

5. What is IVF? Describe the procedure of IVF.
What is the importance of IVF? $1+5+3=9$
6. What is neuroendocrine system in insects?
Write the functions of different insect
hormones. $2+6=8$
