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5 SEM TDC ZOO M 7

2017

(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 No. 1 and any **four** from the rest

1. (a) Fill in the blanks : 1×5=5

(i) The pocket-like structure inside which the pituitary is protected and remains well-hidden is called ____.

(ii) The hormone related to disease cretinism is secreted by the ____ gland.

(2)

(iii) Acromegaly is caused due to _____ secretion of growth hormone during adulthood.

(iv) Any method that prevents pregnancy is called _____.

(v) In insects, the brain hormone is secreted by neurosecretory cells of _____.

(b) Write short notes on any two of the following : $3\frac{1}{2} \times 2$

(i) Glucocorticoids

(ii) Anatomy of mammalian pituitary

(iii) Biochemical nature of hormone

(iv) Amniocentesis

2. Compare the pancreas of amphibia and mammal.

3. What are the hormones secreted by thyroid? Discuss briefly the metabolic regulations of thyroid hormones. $2+7$

4. What is meant by trophic hormone? Discuss the mechanism of action of peptide and steroid hormones. $1+(4+4)$

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(Continue)

(3)

5. What is IVF? Why is it needed? Write about the importance and process of IVF. $1+2+6=9$

6. Discuss the neuroendocrine system of insects. 9

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