

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 : $3\frac{1}{2} \times 2 = 7$

(i) Glucocorticoids

(ii) Anatomy of mammalian pituitary

(iii) Biochemical nature of hormone

(iv) Amniocentesis

2. Compare the pancreas of amphibia and mammal.

9

3. What are the hormones secreted by thyroid? Discuss briefly the metabolic regulations of thyroid hormones.

$2+7=9$

4. What is meant by trophic hormone? Discuss the mechanism of action of peptide and steroid hormones.

$1+(4+4)=9$

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
