

2018

(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*

1. (a) Fill in the blanks : 1×5=5

(i) In both Amphibia and bird, the adrenal gland is attached with _____ side of kidney.

(ii) The hormone glucagon is secreted by _____ cells of pancreas.

(iii) Insulin deficiency reduces the _____ storage ability.

(2)

(iv) A technique called _____ is useful to know the abnormalities in the developing embryo.

(v) Juvenile hormone regulates development and _____ in insects.

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

(i) Function of somatotrophic hormone

(ii) Function of thyroxine

(iii) Function of aldosterone

(iv) Function of glucagon

2. Write a comparative account of adrenal gland between fish and bird or Amphibia and mammal. 9

3. What is hypothalamo-hypophysial system? Discuss the regulatory factors secreted by hypothalamus. 3+6=9

4. Mention the names and chemical nature of female sex hormones. Discuss the role of hormones during pregnancy. 3+6=9

(3)

Or

Prepare a note on the methods of contraception. 9

5. Describe the role of hormones in growth of an insect. 8

Or

What are prothoracic glands? Discuss the function of moulting hormones in metamorphosis in insects. 3+5=8
