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5 SEM TDC ZOO M 7

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

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