

Code No. : 01/305

First Semester Examination, Dec. 2018

M.Sc. ZOOLOGY

Paper - III

ENDOCRINOLOGY

Time : 3 Hrs.

Max. Marks : 80

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
Part C (Short answer type) of each question will be answered in 200-250 words.
- Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. Define hormone. (2)

Q.1 B. Name any four steroid hormone. (2)

Q.1 C. Explain the classes of hormone. (4)

OR

Comment on catecholamine hormone.

Q.1 D. Classify hormones based on their structure and function. (12)

OR

Discuss role of hormones and homeostasis.

P.T.O.

(2)

Code No. : 01/305

Unit - II

Q.2 A. Define hormone receptor. (2)

Q.2 B. Write full form of DAG and IP₃. (2)

Q.2 C. Which hormones use cyclic-AMP as a second messenger?
Comment. (4)

OR

Write about types of nuclear receptor.

Q.2 D. Discuss mechanism of action of Adrenocortical hormone. (12)

OR

Explain Receptors and hormone action.

Unit - III

Q.3 A. Define Gluconeogenesis. (2)

Q.3 B. Write two functions of Estrogen. (2)

Q.3 C. Write the name and structure of amino acid derivative hormone. (4)

OR

Describe in brief the role of Insulin and Glucagon in Carbohydrate Metabolism.

Q.3 D. Write a note on hormonal regulation of carbohydrate metabolism. (12)

(3)

Code No. : 01/305

OR

Describe biosynthesis of catecholamines.

Unit - IV

Q.4 A. What is neuro endocrine system? (2)

Q.4 B. Write name of sex hormones in male. (2)

Q.4 C. Describe endocrinal regulation of lactation. (4)

OR

Describe the role of hormone in ovulation.

Q.4 D. Write an essay on control and coordination of hormone secretion. (12)

OR

Describe Neuro-endocrine system in detail.

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