

DD-790

M. Sc. (Fourth Semester) EXAMINATION, 2020

ZOOLOGY

(Group—II)

Paper Fifth

(Molecular Endocrinology and Reproductive Technology)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all the *five* questions. All questions carry equal marks.

1. Write short notes on the following :
 - (a) Synthesis of cholesterol from acetic acid.
 - (b) Write about Zink Finger.
 - (c) Describe the role of calcium for the activation of kinase enzymes.
 - (d) Write about the steps of estrous cycle.

Unit—I

2. What is Ecosanoids ? Describe its synthesis and function.

Or

Explain the synthesis mechanism of amino acid derivatives hormones.

Unit—II

3. Explain Adenylcyclase receptor complex mechanism.

Or

Describe the Nuclear receptor and explain the role of Lucine Zipper and Helix turn helix in receptor mechanism.

Unit—III

4. Write about the releasing stimuli of different hormones and explain pulsatile secretion of hormone.

Or

Write short notes on the following :

- (a) Cyclic nucleosides
- (b) Miscellaneous second messengers

Unit—IV

5. Explain vasectomy techniques in detail.

Or

Write short notes on the following :

- (a) Embryo transfer techniques
- (b) Laprotomy