

Roll No.

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.

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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

DD-790

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500