K22P 1438

Reg. No. : .....

Name : .....

III Semester M.Sc. Degree (CBSS-Reg./Sup./Imp.) Examination, October 2022

(2019 Admission Onwards)

ZOOLOGY

ZOO3C11 : Developmental Biology and Endocrinology

Time : 3 Hours

Max. Marks : 60

PART – A

(Developmental Biology)

I. Answer **any one** of the following : **(1×12=12)**

1) Explain the vulva formation in *Caenorhabdites elegans*.

2) Explain the limb development in chick.

II. Answer **any two** of the following : **(2×8=16)**

3) Explain the patterns of cleavage.

4) Briefly explain the environmental regulation of development and sex determination.

5) Explain the egg sperm interactions, mention the role of specific molecules in egg sperm interactions.

6) Mechanism of axis formation in amphibian development.

III. Answer **any two** of the following : **(2×5=10)**

7) Commitment.

8) Embryonic stem cells.

9) Epithelial mesenchymal interactions.

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PART – B

(Endocrinology)

IV. Answer **any one** of the following : **(1×12=12)**

10) Write an account on the neuroendocrine system of crustaceans.

11) Explain the nature and principles of hormone action.

V. Answer **any two** of the following : **(2×5=10)**

12) Explain the moulting hormones in insects.

13) Write an account on the biosynthesis of steroid hormones.

14) Explain the effect of abnormal secretion of hormones and their effect on growth.
