

22P315

(Pages: 2)

Name: .....

Reg.No: .....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL3 C08 - DEVELOPMENTAL BIOLOGY AND ENDOCRINOLOGY**

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. What are deuterostomes?
2. What are bicoid and nanos?
3. What are transcription factors?
4. What is cloning?
5. What is unipotency?
6. What is positive feedback mechanism in amphibian metamorphosis?
7. Explain parathyroid gland anatomy and its hormone functions.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Explain genomic imprinting.
9. Explain vulva formation in *C. elegans*.
10. Explain changes associated with ageing.
11. Explain physical characteristics and physiological roles of hormones.
12. Explain hormone action of cAMP and cGMP.
13. Describe the synthesis, functions and pathophysiology of ovarian hormones.
14. Explain neurohormones and pathophysiology.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Write an essay on classification of blastula.

16. Write an essay on wing development in *Drosophila*.
17. Write an essay on teratogenesis.
18. Explain synthesis, chemistry and metabolism of androgens and its control on testicular function.

**(2 × 5 = 10 Weightage)**

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