

21P315

(Pages: 2)

Name: .....

Reg.No: .....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZO3 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 is coeloblastula?
2. What is homeotic selector gene?
3. What is progress zone model?
4. What are promoters?
5. What is unipotency?
6. What is progressive metamorphosis?
7. Describe pancreatic hormones and pathophysiology

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Describe genomic equivalence and cytoplasmic determinants.
9. Explain muscle cell differentiation.
10. Explain changes associated with ageing.
11. Explain hormone secreting organs and types of chemical messengers
12. Explain hormone action of cAMP and cGMP
13. Explain metabolism of androgens and pathophysiology
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 egg membranes.
16. Write an essay on development of eye in frog.
17. Write an essay on environmental regulation of animal development.
18. Explain synthesis, chemistry and metabolism of ovarian steroid hormones

**(2 × 5 = 10 Weightage)**

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