

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19PZOL3C08 - 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 blastocoel?
2. What is anterior-posterior axis formation in Drosophila?
3. What are insulators?
4. What is cloning?
5. What is totipotency?
6. What is Wolffian regeneration?
7. Differentiate between peptide and thyroid hormones

**(4 × 2 = 8 Weightage)****Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Explain specification.
9. Explain tetrapod limb development.
10. Explain retinoic acid as a teratogen.
11. Explain hormone action of cAMP and cGMP.
12. Explain anatomy of pancreas and its hormonal functions.
13. Describe the synthesis, functions and pathophysiology of ovarian hormones.
14. Define endorphins and its physiological role.

**(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 vulval induction in *Caenorhabditis elegans*.
17. Write an essay on metamorphosis in insects.
18. Explain synthesis, chemistry and metabolism of androgens and its control on testicular function.

**(2 × 5 = 10 Weightage)**

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