

23U618

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Name:

Reg.No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19UZOL6B11 - REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY

(Zoology - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Differentiate between semelparity and iteroparity?
2. What is spermiogenesis? Explain the structure of human sperm.
3. What is rhythm method?
4. Differentiate between Dedifferentiation and redifferentiation.
5. Explain homeotic mutations.
6. Describe environmental estrogens with examples.
7. Distinguish between protostomes and deuterostomes.
8. Explain polylecithal eggs.
9. What is grey crescent?
10. What is threshold hypothesis?
11. Explain development of allantois in chick.
12. What is vital staining?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Illustrate the structure of Graafian follicle and write notes on.
14. Explain any three techniques of Assisted Reproductive Technology?
15. Illustrate the structure of blastocyst and explain the process of implantation.
16. Explain cell lineage study in Planocera.

17. Explain gastrulation in Amphioxus.
18. Explain cleavage in chick.
19. Describe gradient theory.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Explain the different invasive and non-invasive prenatal diagnostic techniques.
21. Explain different types of Parthenogenesis. Comment on its significance.

(1 × 10 = 10 Marks)
