

22U618

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Name: .....

Reg.No: .....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U ZOL6 B11 - 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. What is atresia? What is its significance?
2. Explain the features of human placenta.
3. Explain chorionic villus sampling and its significance.
4. Explain the events taking place during capacitation of sperm.
5. What are the significance and applications of stem cells?
6. How Bisphenol is acting as a teratogen?
7. What are gemmules?
8. What is neurenteric canal?
9. What is copulation path?
10. What is primary blastocoel?
11. Explain 48 hours chick embryo.
12. What is vital staining?

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

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

13. Explain the reversal of sex in vertebrates.
14. Explain the different methods of fertility control.
15. What are homeotic genes? Explain their significance.
16. Explain different types of Parthenogenesis.
17. Discuss classification of egg based on quality of yolk.

18. Explain neurulation in frog.
19. Describe hormonal control of amphibian metamorphosis.

**(Ceiling: 30 Marks)**

**Part C** (Essay questions)

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

20. Describe various Assisted Reproductive Technologies with a short notes on test tube babies.
21. Describe cleavage.

**(1 × 10 = 10 Marks)**

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