

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024
(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL6B11T: REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)

1. What are the functions of placenta?
2. Comment on neurenteric canal.
3. What are fate maps?
4. What is primitive streak?
5. What is blastocyst?
6. Give the composition of semen.
7. Define double gradient theory.
8. What are teratogens? Give examples.
9. What is Arrhenotoky? Give an example.
10. What is corpus luteum? Mention its functions.
11. Define vital staining with an example.
12. Comment on female foeticide.

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)

13. Explain acrosome reaction and cortical reaction during fertilization.
14. Explain cell lineage in Planocera.
15. What are stem cells? Mention its significance.
16. Explain menstrual cycle and its hormonal control.
17. What are the contributions of Spemann to experimental biology?
18. Classify eggs based on the distribution and amount of yolk with examples.
19. What are assisted reproductive techniques? Explain any two ART in detail.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Explain the organogeny of Frog Brain.
21. What are the salient features of 24 hours' chick embryo?

(1 x 10 = 10 Marks)