

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025
(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 is invagination?
2. What is brow spot?
3. Comment on organizer and induction.
4. Give an account on dorsal lip of blastopore.
5. Add a note on male accessory reproductive glands.
6. What is FAS?
7. List the major events involved in the activation of egg.
8. What is recapitulation theory?
9. Define capacitation. Mention its significance.
10. Write an account on phases of development.
11. What is the function of chalaza?
12. Comment on sex reversal. Give examples.

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

13. Explain natural and artificial parthenogenesis.
14. Describe the process of fertilization in frog.
15. What is cloning? Explain the cloning procedure of Dolly.
16. With aid of diagram explain the structure of chick egg and its membranes.
17. Explain controlled gene expression during drosophila development.
18. Write an account on reproductive strategies in organisms.
19. What is blastula? Explain the different types of blastula.

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

20. What is prenatal diagnosis? Describe invasive diagnostic techniques.
21. Write an essay on gastrulation and germ layer formation in human beings.

(1 x 10 = 10 Marks)