

**D 140248**

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Name.....

Reg. No.....

**SIXTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION****APRIL 2026**

Zoology

ZOL 6B 11 T—REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY

(2020 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A (Short Answer Type)***All questions can be answered.**Each question carries 2 marks.**(Ceiling 20 marks)*

1. What are Leydig cells ? What are their functions ?
2. What is Gestation ?
3. What is meant by GIFT ?
4. Describe recapitulation theory.
5. Distinguish between cleidoic and non cleidoic egg with examples
6. Write an account on Germ layers and their derivatives.
7. What is cortical reaction ?
8. What is Hensen's node ?
9. What are Hox genes ?
10. Differentiate between arrhenotoky and thelytoky with examples.
11. What is Amniocentesis ?
12. What is meant by surgical contraception ?

**Turn over**

**Section B (Paragraph/Problem Type)**

*All questions can be answered.*

*Each question carries 5 marks.*

*(Ceiling 30 marks)*

13. Give a short account on Cloning experiments in sheep.
14. Give a brief account on the effects of alcohol and drugs on embryonic development.
15. Describe the formation of mesoderm and coelom in frog.
16. Describe Spemann's experiment to prove the potency of nuclei.
17. What are the different types of blastula ? Give example for each of them.
18. What is artificial insemination ? Briefly describe the steps involved in it.
19. Give a brief account on oestrous cycle in mammals and its hormonal control.

**Section C (Essay Type)**

*Answer any **one** of the following question.*

*The question carries 10 marks.*

20. With the help of suitable diagrams, describe the formation of eye in frog.
21. With suitable diagram, describe the salient features of 48 hours old chick embryo.

(1 × 10 = 10 marks)