

TB206605W

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023
(2020 Admission Regular, 2019, 2018 Admissions Supplementary)
SEMESTER VI - CORE COURSE (ZOOLOGY)
ZY6B09B18 - DEVELOPMENTAL BIOLOGY

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. Write a note on cleidoic egg.
2. Explain thelytoky.
3. What is Holoblastic cleavage? Give an example.
4. Define Exogastrulation.
5. Write any two examples for Discoidal cleavage.
6. Explain Periblastula.
7. Name any two contraceptive devices.
8. What is Progressive metamorphosis? Give an example.
9. Describe Intra Cytoplasmic Sperm Injection.
10. Define Regressive metamorphosis? Give an example.
11. Name any two infections that can cause birth defects.
12. Write a note on the cotyledonary placenta.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Describe male reproductive organs.
14. Describe the structure of mammalian sperm.
15. With suitable examples describe cell differentiation and determination in embryonic development.
16. Differentiate between Stereoblastula and Periblastula. Sketch and label.
17. Write the functions of extra embryonic membranes in chick.
18. What is Parturition? Explain the stages in Parturition.
19. Describe the development and role of the Primitive streak in the chick.
20. Describe the events in human fertilization.
21. Describe Cloning.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Explain the mechanism of fertilization with suitable diagrams.
23. Define Blastula. Explain different types of Blastula. Sketch and Label.
24. Write an essay on different Contraceptives and birth control.
25. Describe the events and physiological processes involved in regeneration.