

B. Sc. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018**(2015 Admission Regular)****SEMESTER VI - CORE (ZOOLOGY)****ZY6B09TB - REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY****Time : Three Hours****Maximum Marks : 60****Part A****I. Answer all questions. Each question carries 1 marks**

1. What is amphimixis?
2. Define Parthenogenesis.
3. Define Morula
4. List any 2 Embolic movements seen in Organisms
5. What is the effect of ionizing radiation on the embryo?

(5x1=5)**Part B****II. Answer any Five questions. Each question carries 2 marks**

6. Distinguish between Mosaic and regulative egg
7. Describe polarity in eggs.
8. List any 4 characteristics of cleavage
9. Distinguish between Determinate and indeterminate cleavage . Give an example
10. Give an account of primitive streak.
11. Briefly explain 18 hours chick embryo.
12. What are the causes of IUGR.
13. Distinguish between asymmetrical and symmetrical IUGR.

(5x2=10)**Part C****III. Answer any Five questions. Each question carries 5 marks**

14. Explain different egg types.
15. Explain Oogenesis.
16. What is metamorphosis ? Give an account of the morphological changes seen in the metamorphosis of frog
17. Define Blastula. Explain different types of Blastula
18. Write the functions of extra embryonic membranes in chick.
19. Describe Spemann's constriction experiments.
20. Describe the causes of malformation.
21. Explain different causes of miscarriage.

(5x5=25)**Part D****IV. Answer any Two questions. Each question carries 10 marks**

22. Explain the mechanism of fertilization with suitable diagrams.
23. With the help of a labelled diagram Explain the development of the brain of Frog .
24. Write an essay on different types of placenta and its functions.
25. Write an essay on Teratogenic agents and mechanism of action of teratogens.

(2x10=20)