

TB146780A

Reg. No.....

Name.....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017

SEMESTER VI - ZOOLOGY

ZOO6RDB - REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark.

1. What is pre-formation theory?
2. Define cell differentiation.
3. What is stereoblastula?
4. What is spermiogenesis?
5. What is deciduate placenta?.
6. Give the significance of primitive streak.
7. Define chromosomal mosaicism?.
8. What are stem cells?

(8x1=8)

PART B

II. Answer any six questions. Each questions carries 2 marks.

9. Describe polarity of egg.
10. Differentiate between isolecithal and telolecithal eggs.
11. What is germ layer theory? Give the derivatives of germ layers.
12. Comment on grey crescent.
13. What is spiral cleavage? Give examples.
14. Write a note on 18 hour chick embryo.
15. What is blastocyst?
16. Comment on amniocentesis.
17. What is IUGR?
18. Distinguish between euploidy and aneuploidy.

(6x2=12)

PART C

III. Answer any four questions. Each questions carries 4 marks.

19. Give an account on development of frog eye.
20. Explain typical chordate blastula with a suitable diagram.
21. Explain Spemann's constriction experiments.
22. With diagram describe 24 hours chick embryo.
23. Comment on foetal membranes in man.
24. Explain estrous cycle.

(4x4=16)

PART D

IV. Answer any two questions. Each questions carries 12 marks.

25. Explain the mechanism of fertilization with suitable diagrams.
26. Write an essay on teratogens.
27. Comment on various morphogenetic movements.
28. Write an essay on different types of placenta and its functions.

(2x12=24)