

E 1568

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2016

Sixth Semester

Core Course—REPRODUCTION AND DEVELOPMENTAL BIOLOGY

(Common for B.Sc. Zoology Model I, Model II B.Sc. Industrial Microbiology and Zoology and B.Sc., BT and SP)

[2013 Admissions]

Time : Three Hours

Maximum : 60 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Define Parthenogenesis.
2. What is Pleuripotency ?
3. What is Amniocentesis ?
4. Define Hensen's Node.
5. What is Blastocyst ?
6. Name the factors influencing regeneration in animals.
7. Define IUGR.
8. What is Epigenesis ?

(8 × 1 = 8)

Part B

Answer any six questions.

Each question carries 2 marks.

9. Explain Biogenetic law.
10. Differentiate involution from invagination.
11. Mention the types of regeneration in animals.
12. What is oestrous cycle ?
13. Differentiate between Diffuse and Zonony placenta.
14. What is Organizer ? Give an example.
15. What is Teratology ? Name two teratogenic agents.
16. Write down the negative aspects of Human cloning.

Turn over

17. How do chemicals and drugs cause malformation in man ?
18. What is Aneuploidy ? Give an example.

(6 × 2 = 12)

Part C

*Answer any four questions.
Each question carries 4 marks.*

19. Explain controlled gene expression during development with reference to *Drosophila*.
20. Sketch and label the organ forming areas on the blastula of frog.
21. Describe the foetal membranes of human embryo.
22. Explain the concept at germ layers and comment on the present status.
23. Describe the multifactorial and idiopathic disorders at malformation.
24. Explain the influence of yolk on development.

(4 × 4 = 16)

Part D

*Answer any two questions.
Each question carries 12 marks.*

25. Write an essay on hormonal control of menstrual cycle.
26. Give an account on the causes of infertility and the various assisted reproductive technologies used for remedy.
27. With the help of a neat diagram, explain 24 hour check embryo.
28. Explain the different events involved in fertilization with the help of diagram.

(2 × 12 = 24)