



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2016

16PZO1MC03 - ADVANCED DEVELOPMENTAL BIOLOGY

Date: 07-11-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. What is reduction in membrane potential?
2. Define GIFT.
3. Comment on embryo splitting.
4. What is incomplete metamorphosis?
5. List out ectodermal derivatives.
6. Differentiate transgenesis and transfection.
7. What is cell rolling velocity?
8. Define morphallaxis.
9. Comment on super ovulation.
10. What is endminoscope?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Comment on the ethical implications of cloning and embryo transfer.
12. Give an account of spermiogenesis and the factor controlling spermatogenesis.
13. Write notes on morphogenesis.
14. Describe the structure and functions of placenta.
15. Discuss regeneration of mammalian liver.
16. Explain the role of cell death in development.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Discuss the progressive changes during pregnancy in women.
18. Give an account on cryopreservation.
19. Write an essay on multiple ovulation and embryo transfer in cattle.
20. Explain prenatal diagnosis.
