



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – NOVEMBER 2013

ZO 1822 - ADVANCED DEVELOPMENTAL BIOLOGY

Date : 13/11/2013
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. Comment on the period of gestation.
2. What is GIFT?
3. Explain germline gene therapy.
4. Differentiate gestational age from embryonic age.
5. Define superficial implantation.
6. What is endoamnioscope?
7. Classify morphogenetic movements and define.
8. What are germinal layer?
9. Comment on partial metamorphosis.
10. Compare promoter and operator.

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Write notes on the process of cloning.
12. Discuss aging and the biology of senescence.
13. Describe the ultrastructure of spermatozoa.
14. Give an account on ovulation, hormonal control and pregnancy.
15. Explain placenta and its function.
16. Give an account on mammalian liver regeneration.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write an essay on signal transduction.
18. Give an account on cryopreservation.
19. Explain prenatal diagnosis.
20. Write an account on *in vitro* fertilization.
