



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – APRIL 2013

ZO 1822/1816 - ADVANCED DEVELOPMENTAL BIOLOGY

Date : 06/05/2013
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer All the questions

(10×2=20 Marks)

1. Comment on marfan syndrome.
2. Differentiate hypoblast from epiblast.
3. What is homoplastic transplantation?
4. Define the term oligopotency.
5. Comment on cardocentosis.
6. Define blastogenesis.
7. What is enzyme repression?
8. Differentiate superficial from eccentric implantation.
9. Define unipotency.
10. Comment on metamorphosis.

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Write notes on cryopreservation of sperm.
12. Explain the fate of germ layers.
13. Give an account on the role of developmental biology in the field of medicine.
14. Describe the procedure for test tube baby.
15. Explain signal transduction.
16. Describe the ultra structure of spermatozoon and mention its function.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write an essay on prenatal diagnosis.
18. Give an account on the period of gestation and the progressive changes during pregnancy.
19. Explain placentation in mammals.
20. Describe the process of aging and the developmental potential.
