



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2016

ZO 1822 - 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. Define vitellogenesis.
2. What is cortical reaction?
3. Comment on neoteny.
4. What is morula?
5. Comment on neural crest cells.
6. List out the extra embryonic membranes.
7. Comment on the period of gestation
8. What is parturition?
9. Comment on GIFT.
10. What is fetoscopy?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Explain the biochemical changes during oogenesis.
12. Give an account on parthenogenesis.
13. Write notes on exogastrulation.
14. Explain the functions of placenta.
15. Discuss the process of aging.
16. Give an account of hormonal control and pregnancy.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Describe the ultra structural organization and functions of spermatozoa.
18. Write an essay on *in vitro* fertilization.
19. Explain Spemann's primary and secondary organisms.
20. Discuss prenatal diagnosis.
