



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2017

16PZO1MC03 - ADVANCED DEVELOPMENTAL BIOLOGY

Date: 08-11-2017
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. What is gamatogenesis?
2. Define vitellogenesis.
3. What is polarity?
4. Comment on neoteny.
5. Define morula.
6. What is emboly?
7. Comment on organogenesis.
8. What are neural crest cells?
9. Enlist the extra embryonic membrane.
10. What is parturition?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Write the biochemical changes during Oogenesis.
12. Give an account on parthenogenesis.
13. Describe exogastrulation.
14. Explain ecto, endo and meso dermal derivatives and their development.
15. Discuss human cloning and its significances.
16. Give an account on prenatal diagnosis.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Describe ultra structural organization of spermatozoan.
18. Write an essay on invitrofertilization and test tube babies.
19. Give an account on Spemann's primary and secondary organizer.
20. Discuss aging and developmental potential.

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