

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

FIRST SEMESTER – APRIL 2010

**ZO 1816 / 1810 - ADVANCED DEVELOPMENTAL BIOLOGY**

Date & Time: 30/04/2010 / 1:00 - 4:00

Dept. No.

Max. : 100 Marks

**PART – A**

*Answer ALL the questions*

**(10 x 2 = 20 Marks)**

1. Differentiate embryonic and post embryonic period.
2. What is ontogeny?
3. Comment on catamenia.
4. What are the anabolic activities during gastrulation?
5. Write down the constituents of a freshly laid hen's egg.
6. Explain ETT.
7. Comment on neurogenesis.
8. Differentiate oligospermia from azoospermia.
9. What is a fate map?
10. Comment on trophospongia.

**PART – B**

*Answer any FOUR*

**(4 x 10 = 40 Marks)**

11. Write an account on ovulation and hormone control.
12. Explain exogastrulation.
13. Give an account on Biogenetic law and Bear's law.
14. Describe embryonic and exogenous induction.
15. Explain the different types of neoteny. Mention the evolutionary significance.
16. Give an account on extra embryonic membranes.

**PART – C**

*Answer any TWO*

**(2 x 20 = 40 Marks)**

17. Describe the changes during pregnancy and parturition.
18. Classify and explain the different types of placenta.
19. Explain human cloning.
20. Give an account on ageing and developmental potential.

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