



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

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

**FIRST SEMESTER – APRIL 2017**

**16PZO1MC03- ADVANCED DEVELOPMENTAL BIOLOGY**

Date: 03-05-2017  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**Part-A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. What is corpus luteum?
2. Comment on period of gestation.
3. Define chimerism.
4. What is complete metamorphosis??
5. List out the endodermal structures.
6. Differentiate transgene and transgenic organism.
7. What is cell orientation?
8. Define epimorphosis.
9. Comment on multiple ovulation in cattle and embryo transfer.
10. What is embryoscopy?

**Part-B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Explain hormonal control and pregnancy.
12. Write notes on different stages of human embryonic development.
13. Give an account on cellular differentiation.
14. Discuss *in vitro* fertilization in cattle.
15. Explain infertility and artificial insemination in human.
16. Write an account on senescence.

**Part-C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Write an essay on prenatal diagnosis.
18. Explain multiple ovulation and embryo transfer in cattle.
19. Discuss gene regulation and operon concept.
20. Give an account on the physiological changes during pregnancy.

\$\$\$\$\$\$\$\$