



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – APRIL 2016

ZO 1822 - ADVANCED DEVELOPMENTAL BIOLOGY

Date: 02-05-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. What is sperm sexing?
2. Differentiate juxtacrine signals from endocrine signals.
3. Define the term potency.
4. What is transgenesis?
5. Comment on the period of gestation.
6. What is corpus luteum?
7. Comment on fetoscopy.
8. Define spermiogenesis.
9. Comment on foetal sex.
10. Explain multifactorial inheritance disorders.

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Write notes on ovulation and hormonal control.
12. Give an account on the function of placenta.
13. Explain morphogenesis.
14. Discuss metamorphosis in Amphibians.
15. Describe the ultra structure of spermatozoan and mention its functions.
16. Give an account on embryo splitting.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Give an account on progressive changes during pregnancy and parturition
18. Using lac operon explain operon concept.
19. Explain ageing and developmental potential
20. Explain prenatal diagnosis.
