

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2018

16/17/18PZO1MC03 – ADVANCED DEVELOPMENTAL BIOLOGY

Date: 30-10-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

(10x2=20 Marks)

Answer all questions

1. Write the significance of cadherins.
2. Comment on microinjection.
3. Define morpholaxis.
4. What is the role of ecdysone?
5. Explain DNA transcription.
6. Define signal transduction.
7. What is blastocyst?
8. What are the hormones role in parturition?
9. Define super ovulation.
10. Write the significance of ART.

PART – B

(4x10=40 Marks)

Answer any FOUR questions

11. Give an account on Imprinting
12. Write a paragraph on transgenic mouse.
13. Give an account on the regeneration of mammalian liver.
14. Write an account on nuclear transplantation.
15. List out the hormones involved in pregnancy, and add a note on their impact.
16. Describe embryo transfer technique and its advantages.

PART – C

(2x20=40 Marks)

Answer any TWO questions

17. a) What are model organisms?
b) Write an essay on model organisms and add a note on its advantages and disadvantages.
18. a) Define pedogenesis.
b) Give a detailed account on metamorphosis in amphibia.
19. a) Explain the various techniques involved in prenatal diagnosis.
b) Enumerate the significance of prenatal diagnosis
20. a) Define IVF.
b) Discuss the merits, demerits and the technique involved in IVF in humans

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