



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – NOVEMBER 2019

18/17/16UZO3MC03 / AZ 3510 – DEVELOPMENTAL BIOLOGY

Date: 31-10-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

Answer ALL the questions

10 x 2 = 20

1. Baer's law
2. Embryonic induction
3. Rotational cleavage
4. Emboly
5. Optic vesicle
6. Morphogenesis
7. What is Blastema?
8. Define stem cell
9. What are teratogens?
10. Comment on Test tube babies

PART – B

Answer any FOUR questions

4 x 10 = 40

11. Write short notes on Preformation theory
12. Explain in brief on Proliferative Phase
13. Illustrate the patterns of cleavage.
14. Briefly describe the morphogenetic movements in frog.
15. What are the types of stem cells? Explain
16. Explain the development of heart in chick.

PART – C

Answer any TWO questions

2 x 20 = 40

17. Describe the process of oogenesis
18. Compare and comment on the gastrulation of frog and mammals with a neat diagram
19. Give an account on the extra embryonic membranes in chick.
20. What is ART? Briefly explain the techniques and procedures of *invitro* fertilization.

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