

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



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**THIRD SEMESTER – NOVEMBER 2016**

**AZ 3510 – DEVELOPMENTAL BIOLOGY**

Date: 08-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART-A**

Answer ALL the questions.

(10x2=20)

1. Define Biogenetic law.
2. Comment on Epigenesis.
3. What is Amphimixis?
4. Write a note on Fertilization.
5. What is Fate map?
6. Comment on Somatopleuric development.
7. What is Blastema?
8. Define Metamorphosis.
9. What is the significance of Rh factor?
10. What are Inductors?

**PART-B**

Answer any FOUR questions.

(4x10=40)

11. Give an account on gradient theory.
12. Explain briefly the process of oogenesis.
13. Give an account on patterns of cleavage.
14. Write short notes on types of regeneration.
15. Explain briefly the development of eye.
16. Give an account on transgenic animals.

**PART-C**

Answer any TWO questions.

(2x20=40)

17. Explain in detail the process of spermatogenesis.
18. Write an essay on Placentation in mammals.
19. Give an account on development in sponges.
20. Write an essay on test tube babies and artificial insemination.

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