



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2017

AZ 3510- DEVELOPMENTAL BIOLOGY

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

Dept. No.

Max. : 100 Marks

SECTION – A

Answer ALL questions:

(10x2=20 Marks)

1. Comment on pangenesis.
2. What are Sertoli cells?
3. What is a fate map?
4. Comment on auricularia larva?
5. What is an organizer?
6. Define germplasm theory?
7. What is holoblastic cleavage?
8. State the functions of yolk sac.
9. What is blastema?
10. Mention the significance of embryo transplantation technique?

SECTION – B

Answer any FOUR of the following questions:

(4x10=40 Marks)

11. Give an account on mosaic theory and regulative theory.
12. Explain oogenesis with suitable diagrams.
13. Give an account on placentation in mammals.
14. Write a brief account on metamorphosis of insects.
15. Explain the details of transgenic animals.
16. Describe the details of types of eggs.

SECTION – C

Answer any TWO of the following questions:

(2x20=40 Marks)

17. Describe in detail about the types of cleavage.
18. Briefly explain the development of heart and eye in mammals.
19. Write short notes on regeneration.
20. Give an account on test tube babies.
