



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – NOVEMBER 2016

AZ 4503 – EMBRYOLOGY

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART-A

(10×2=20)

Answer ALL questions:

1. Define Epigenesis.
2. What is Germplasm Theory?
3. Define Amphimixis.
4. What is Bilateral Cleavage?
5. Define Fate map.
6. Differentiate Amnion and Yolk sac.
7. What is Corpora Allanta?
8. What is Arhenotoky?
9. What is Teflon Catheter?
10. What is Rh factor?

PART-B

(4×10=40)

Answer any FOUR of the following questions:

11. Give an account on the History of Developmental Biology.
12. Explain Spermatogenesis with suitable diagrams.
13. Write the detailed notes on the events of Fertilization.
14. Give an account on Placentation in Mammals.
15. Give a brief account on Metamorphosis of frog.
16. Explain the steps involved in Microinjection technique.

PART-C

(2 ×20=40)

Answer any TWO of the following questions:

17. Describe the details on the Types of Cleavage.
18. Write notes on the Development of brain in Mammals.
19. Give a brief account on Parthenogenesis.
20. Write an essay on IVF.
