



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

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

**THIRD SEMESTER – APRIL 2019**

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

Date: 25-04-2019  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART-A**

**Answer ALL questions:**

**(10 x 2=20)**

1. Define Epigenesis.
2. Comment on Amphimixis.
3. Differentiate Chorion and Yolk sac.
4. What is blastema?
5. Define IVF.
6. Define Organizer.
7. What is Meroblastic Cleavage?
8. What is Splanchnic Mesoderm?
9. Comment on Liver regeneration?
10. Define Artificial Insemination

**PART-B**

**Answer any FOUR of the following questions:**

**(4 x10=40)**

11. Explain Oogenesis with suitable diagrams.
12. Describe the details of Types of Cleavage.
13. Write notes on the Development of Heart in Mammals.
14. Give short notes on Regeneration.
15. Give a brief account on Conjoined twins.
16. Give an account on the History of Developmental Biology.

**PART-C**

**Answer any TWO of the following questions:**

**(2 x 20=40)**

17. Explain Spermatogenesis with suitable diagrams.
18. Write the detailed notes on the events of Fertilization.
19. Give an account on Placentation in Mammals.
20. Write an essay on Test tube babies.

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