

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



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

**FOURTH SEMESTER – APRIL 2018**

**AZ 4503– EMBRYOLOGY**

Date: 09-05-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

**ANSWER ALL QUESTIONS:**

**(10 X 2 = 20 marks)**

Define the following:

1. Germplasm theory
2. Mosai theory
3. Spermatogenesis
4. Amphimixis
5. Organogenesis
6. Fate Maps
7. Metamorphosis
8. Parthenogenesis
9. Test tube baby
10. Microinjection

**PART – B**

**ANSWER ANY FOUR IN BRIEF:**

**(4 X 10 = 40 marks)**

11. Describe the morphology and types of Chordate eggs.
12. Explain the development of brain.
13. Explain the development of foetal membranes in mammal.
14. Write note on the development in Sponges,
15. Explain the Transgenic animals.
16. Describe the effect of yolk on cleavage.

**PART – C**

**ANSWER ANY TWO IN DETAIL:**

**(2 X 20 = 40 Marks)**

17. Give an account on spermatogenesis.
18. Write an essay on placentation in mammals
19. Give an account on Regeneration.
20. Describe the embryo transplantation techniques.

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