

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



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

**THIRD SEMESTER – APRIL 2016**

**AZ 3510 – DEVELOPMENTAL BIOLOGY**

Date: 02-05-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART -A**

Answer ALL the questions

(10x2= 20)

01. What are primordial germ cells?
02. Define vitellogenesis.
03. What is chemodifferentiation?
04. What are the factors affecting cleavage?
05. Classify morphogenetic movements.
06. Define parthenogenesis with an example.
07. What is regeneration?
08. Define organiser.
09. What is Rh Factor?
10. Comment on metamorphosis.

**PART- B.**

(4 x 10= 40)

Answer any FOUR questions

11. Explain the theories of formation of preformation and epigenesis.
12. Give an account on the ultra structure and functions of sperm in relation to its mobility.
13. Explain the events during physiology of fertilisation.
14. Describe the structure and functions of placenta of mammals.
15. Explain the fate of germ layers.
16. Explain the procedure for test tube baby.

**PART-C**

(2 x20= 40)

Answer any TWO questions

17. Describe in detail the development of extra embryonic membranes.
18. Give a detailed account on the development of a vertebrate brain.
19. Describe the process of gastrulation in frog.
20. Give an account on the prenatal diagnosis.

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