

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY & BIOTECH.

FOURTH SEMESTER – NOVEMBER 2009

Z 418 – DEVELOPMENT BIOLOGY

Date & Time: 12/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Answer ALL questions

10X2=20marks

1. Comment on pangenesis.
2. Define biogenetic law.
3. Distinguish meiosis from haplosis.
4. What is spermioteleosis?
5. Define amphimixis.
6. What are fate maps?
7. Comment on neurulation.
8. Explain blastopore.
9. What is parthenogenesis?
10. Define Blastema.

PART B

Answer any FOUR

4X10=40marks

11. Write notes on theory of preformation and theory of germplasm.
12. Draw and label the structure of chick egg.
13. Explain cleavage patterns.
14. Describe primary and secondary organizers each with a suitable example.
15. Write notes on development of brain.
16. Categorize morphogenetic movements.

PART C

Answer any TWO

2X20=40marks

17. Write an essay on gametogenesis.
18. Describe fertilization.
19. Explain origin and development of foetal membranes in chick.
20. Elaborate the development in Sponges.
