

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – NOVEMBER 2017

AZ 3510 – DEVELOPMENTAL BIOLOGY

Date: 07-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer all the Questions

(10 x 2 = 20 marks)

1. Explain of epigenesis theory.
2. What are cortical granules.
3. Elucidate on fate maps.
4. Define the term gastrulation.
5. Define mosaic egg with an example.
6. What are photoreceptors.
7. Explain Rh factor.
8. What is FSH.
9. Explain He La cells.
10. What are transgenic animals.

PART – B

Answer any for Questions

(4 x 10 = 40 marks)

11. Discuss briefly about transplantation
12. Differentiate between Zona radiata and corona radiata
13. Write notes on Fertilizin – antifertilizin reaction.
14. Describe various functions of placenta
15. What is grey crescent & add a note on its significance.
16. Explain the role of Juvenile Hormone in insect metamorphosis.

PART – C

Answer any two questions

(2 x 20 = 40 marks)

17. Write an essay on the historical growth of developmental biology
18. Draw a labelled electron microscopic diagram of growing primary oocyte of mammal with suitable explanation.
19. Write an essay on development of brain / heart in any of the vertebrate you have studied.
20. Classify placenta and add a note on the influence of drugs on the foetus consumed by the pregnant women
