

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2018

16UZO3MC03– DEVELOPMENTAL BIOLOGY

Date: 08-05-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER ALL QUESTIONS:

(10 X 2 = 20)

Define the following:

1. Organizers
2. Spermatogenesis
3. Involution
4. Epiboly
5. Morphogenesis
6. Extra embryonic membrane
7. Stem cell
8. Regeneration
9. Cojoined twins
10. Multiple births

PART – B

ANSWER ANY FOUR IN BRIEF:

(4 X 10 = 40)

11. Describe the fertilization in sea urchin.
12. Write a paragraph the development of placenta.
13. Explain the role of stem cell in regeneration and development.
14. Describe the congenital malformations with examples,
15. Explain the process of regeneration and aging.
16. Elaborate the history of developmental biology.

PART – C

ANSWER ANY TWO IN DETAIL:

(2 X 20 = 40)

17. Give an account on Oogenesis with suitable diagram.
18. Write an essay on Gastrulation in frog and chick with suitable sketch.
19. Describe the process of regeneration in hydra.
20. Explain the IVF techniques and its applications.
