

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2015 – 2016& thereafter)

SUBJECT CODE: 15ZL/MC/DB34

B.Sc. DEGREE EXAMINATION - NOVEMBER 2018
BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR CORE
PAPER : DEVELOPMENTAL BIOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION - A

ANSWER ALL THE QUESTIONS.

(10 x 3 = 30)

1. Organizer
2. Ametabolic insects
3. Capacitation
4. Contra deciduate placenta
5. Amphiblastula
6. Vital staining
7. Neural crest cells
8. Choroid plexus
9. GIFT
10. Surrogacy

SECTION - B

ANSWER ANY FIVE QUESTIONS.

(5 x 6 = 30)

11. Explain the mechanism of regeneration
12. Discuss the major events involved in the metamorphosis of spermatid into sperm.
13. Write an account of the planes and patterns of cleavage.
14. Describe the development of different digestive organ from the endoderm.
15. Discuss the needs and ethical issues related to surrogate motherhood.
16. Brief about induced ovulation and its application.
17. What is fate map? Describe the different methods of fate map construction.

SECTION - C

ANSWER ANY TWO QUESTIONS.

(2 x 20 = 40)

18. Explain the major events that occur in the process of fertilization.
19. Give an account of metamorphosis in Amphibians.
20. Compare the process of gastrulation in Frog and Chick
21. Describe the development of heart and blood from the mesoderm.
