

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2004 – 2005)

SUBJECT CODE: ZL/MC/DB64

B. Sc. DEGREE EXAMINATION APRIL 2007
BRANCH VI. ZOOLOGY
SIXTH SEMESTER

COURSE : MAJOR –CORE
PAPER : DEVELOPMENTAL BIOLOGY

TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS :

(10 X 3 = 30)

1. What is epigenesis?
2. Comment on sertoli cells.
3. What is artificial insemination?
4. What is chemotaxis?
5. How is primitive streak formed?
6. Comment on cryopreservation.
7. Comment on fate maps.
8. What is neurulation?
9. What is cloning?
10. Explain the function of placenta.

SECTION – B

ANSWER ANY FIVE QUESTIONS :

(5 X 6 = 30)

11. Give an account of induced ovulation and its application.
12. Explain the process of metamorphism in amphibians.
13. Discuss the different types of parthenogenesis and its importance.
14. Explain how yolk determines the cleavage.
15. Explain the development of ear in frog.
16. Give an account of extra-embryonic membranes and its function.
17. Discuss the ethical issues related to recent advances in Reproductive Technology.

SECTION – C

ANSWER ANY TWO QUESTIONS :

(2 X 20 = 40)

18. Write an essay on regeneration with a note on mechanism of regeneration.
19. Discuss in detail the plane, patterns and rate of cleavage.
20. Discuss in detail the nuclear transplantation interactions in Frog.
21. Write an essay on the different types of Placenta in mammals.
