

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2018**SEMESTER – 6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO09: REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY***(For Regular - 2015 Admission)*

Time: Three Hours

Max. Marks: 60

PART AAnswer **all** Questions

1. Name the scientist who proposed germplasm theory.
2. What is Antifertilizin?
3. Name the site of fertilization in humans
4. Give an example of microlecithal egg.
5. Define morula.
6. What is pluripotency?
7. Name the enzyme present in sperm head.
8. Name the causative organism of Syphilis.

(1 x 8 = 8)

PART BAnswer **any Six**

9. Explain amniocentesis.
10. What is meant by teratogenesis?
11. Explain Intra Uterine Growth retardation.
12. Give a brief account on the germ layers.
13. Comment on stem cell research.
14. Differentiate between epiboly and emboly
15. Draw the structure of human sperm.
16. Give an account on the functions of placenta.

(2 x 6 = 12)

PART CAnswer **any Four**

17. Explain the hormonal regulation of menstrual cycle.
18. Write an account on the types and planes of cleavage.
19. Give an account on the control of genes over developmental process in drosophila.
20. Give an account on the ethical issues related to embryological experiments.
21. Describe Spemann's constriction experiments.
22. Explain different types of regeneration.

(5 x 4 = 20)

PART DAnswer **any Two**

23. Write an essay on gastrulation.
24. Explain the features of 24 hour chick embryo.
25. Give a detailed account on congenital abnormalities of man.
26. Write an essay on the classification of placenta.

(10 x 2 = 20)