(Pages: 2)   Name: …………..……….

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2018
(CUCBCSS - UG)
CC15U ZO6 B13 - REPRODUCTIVE BIOLOGY, DEVELOPMENTAL
BIOLOGY AND TERATOLOGY
Zoology - Core Course
(2015 Admission)

Time: Three Hours   Maximum: 80 Marks

A. Answer *all* questions. Each question carries 1 mark.

1.   What is Corpus luteum?

2.   What is cryopreservation?

3.   What is ZIFT?

4.   Define PNDT Act.

5.   What is Recapitulation Theory?

6.   What is Primitive Streak?

7.   What is capacitation?

8.   What is cleidoic egg?

9.   What is thelytoky?

10. What are Hox genes?

(10 x 1=10 Marks)

B. Answer any *ten* questions. Each question carries 2 marks.

11. What are Grafian follicle?

12. What is cleavage?

13. What is implantation?

14. What is Vital staining?

15. Mention the functions of Sertoli cells.

16. What are the applications of stem cells?

17. How environment causes teratogenicity?

18. What are the major morphogenetic movements?

19. Mention the salient features of 48 Hrs. chick embryo.

20. Write an account on test tube babies.

21. Mention different types of blastula.

22. What is totipotency?

(10 x 2=20 Marks)

C. Answer any *five* questions. Each question carries 6 marks.

23. Explain gametogenesis in female reproductive system.

24. Write briefly the major A.R.T.

25. Explain the major steps of *invitro* fertilization and embryo transfer.

26. Explain the fate map of frog.

27. Explain the development and functions of extra embryonic membranes in chick.

28. Write an account on Homeotic genes.

29. Explain gastrulation in in Amphioxus.

30. Write briefly the gradient experiments in sea urchin eggs.

(5 x 6=30 Marks)

D. Write essays on any *two* of the following. Each question carries 10 marks.

31. Write an essay on cell lineage studies in Planaria.

32. Explain different types of Parthenogenesis.

33. With the help of labelled diagram describe the development of eye in frog.

34. Explain different types of eggs with suitable examples.

(10 x 2=20 Marks)

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