

**16U618**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019**

(Regular/Improvement/Supplementary)

(CUCBCSS-UG)

**CC15U ZO6 B13 - REPRODUCTIVE BIOLOGY, DEVELOPMENTAL BIOLOGY  
AND TERATOLOGY**

Zoology - Core Course  
(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

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

1. Name the hormone secreted by human placenta.
2. What is corpus albicans?
3. Expand ICSI
4. What is morula?
5. Mention the hormones involved in lactation.
6. Name the neural indicator in frog embryo.
7. Name the three primary germ layers.
8. What is iteroparity?
9. Name any two assisted reproductive technologies
10. What is endometrium?

**(10 x 1 = 10 Marks)**

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

11. What is PNDDT act?
12. Distinguish between penetration path and copulation path.
13. Differentiate between invagination and involution during gastrulation.
14. What is fate map?
15. Comment on grey crescent region.
16. Distinguish between totipotency and pluripotency.
17. Give a short note on vital staining
18. What are Hox Genes?
19. Distinguish between Radial cleavage and spiral cleavage.
20. What is graafian follicle?
21. What is surrogacy?
22. Give a short note on Test tube babies.

**(10 x 2 = 20 Marks)**

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

23. Give an account on environmental disruption of animal development caused by alcohol and nicotine.
24. Describe the different types of natural parthenogenesis.
25. Describe the salient features of chick embryo at 24 hours stage.
26. Briefly explain oestrous cycle in mammals and the hormones associated with it.
27. Briefly describe the blastulation in amphioxus.
28. Comment on hormonal control of amphibian metamorphosis.
29. Give a detailed note on different types of blastulation.
30. Describe gastrulation in man up to the formation of germ layers.

**(5 x 6 = 30 Marks)**

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

31. With the help of labeled diagrams classify different types of eggs with suitable examples.
32. With suitable diagrams explain the development of brain in frog.
33. Comment on Gastrulation in chick. Add a note on 48 hour chick embryo.
34. Describe various methods for Fertility Control.

**(2 x 10 = 20 Marks)**

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