

**B.SC DEGREE END SEMESTER EXAMINATION - MARCH 2020****SEMESTER – 6: ZOOLOGY (CORE COURSE)****COURSE: U6CRZOO9 –: REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY***(For Supplementary - 2014 Admission)*

Time: Three Hours

Max. Marks: 60

**PART A**Give brief description on the following (Answer **all** questions)

1. Write on Germplasm theory
2. What is Blastema?
3. Preformation theory
4. Define cloning.
5. What is Morula?
6. Spermiogenesis
7. Cleidoic eggs
8. Comment on polarity of eggs

(1 x 8 = 8)

**PART B**Answer **any Six** of the following

9. Differentiate between organizers and inductors.
10. Comment on influence of yolk on cleavage
11. Delayed nucleation experiments
12. Write notes on primitive streak and its importance in development
13. Differentiate between penetration path and copulation path
14. IUGR
15. Explain chorionic villus sampling
16. Write on Area opaca and area pellucida

(2 x 6 = 12)

**PART C**Answer **any Four** of the following

17. Describe invitro fertilization
18. Write on morphogenetic movements.
19. Different types of blastula with examples for each.
20. Classify eggs based on amount and distribution of yolk
21. Explain estrous cycle.
22. Describe the various methods of ART

(5 x 4 = 20)

**PART D**Answer **any Two** of the following

23. Write an essay on parthenogenesis and its significance.
24. With a neat labeled sketch explain the characteristic features of 24 hour chick embryo.
25. Write an account on different types and planes of cleavages with examples.
26. Define teratogens. Give an account on various teratogenic agents.

(10 x 2 = 20)