

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, August 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Biochemistry

ZO 1431.1 : APPLIED ZOOLOGY

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

- I. Answer **all** questions.
1. What is Apiculture?
 2. Write any two examples for culture fishes.
 3. What is Royal Jelly?
 4. Name any two products from poultry.
 5. What are Autosomes?
 6. Write any two examples for single gene disorder.
 7. What is Amniocentesis?
 8. Name any two egg membranes.
 9. What is Artificial insemination ?
 10. What are Embryonic organizers?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any eight of the following.

11. Write a note on the different castes in honey bee colony.
12. Write any two diseases of Silkworm.
13. Name any four aquarium fishes.
14. Write any two diseases of Poultry and its Pathogen.
15. Name any four fishing crafts.
16. Write the economic importance of Honey bee.
17. What is Karyotyping?
18. What is Gene therapy?
19. What is Morphogenetic movement? Write any two examples.
20. What is Fertilization membrane? Write its function.
21. How Test tube babies are formed?
22. What is Bee pasturage?
23. What is Blue revolution?
24. List out the major Bee keeping equipment.
25. Write the major pests of Silk worm.
26. What is Pedigree analysis?

(8 × 2 = 16 Marks)

III. Answer any **six** of the following.

27. Write a note on the major breeds of cattle.
28. Briefly describe the Genetic basis of Sickle cell anemia.

29. Write the major techniques used for the preservation of milk.
30. Briefly describe the process of Gene cloning.
31. Write a note on the major Prenatal diagnostic techniques.
32. Give a brief description on various types of Fishing gears.
33. What are Stem cells? Write its applications.
34. Give an account of Multifactorial disorders.
35. Describe the different types of eggs.
36. Write a brief note on Pearl culture.
37. Give a brief description on different Poultry breeds.
38. Write a note on the major diseases of cattle.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following.

39. Describe the Life history of Silkworm and the methodology of Sericulture.
40. Write an essay on Aquarium setting and its maintenance.
41. Write an essay on the goal and application of Human Genome Project.
42. Write an essay on the major events in fertilization.
43. Describe the different types of Cleavage.
44. Write an essay on Chromosomal disorders.

(2 × 15 = 30 Marks)