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**N – 7800**

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**

**(2015–2018 Admission)**

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (In **one** or **two** sentences. **one** marks each)

1. What is a rock bee?
2. Which is the state fish of Kerala?
3. What is phenyl ketonuria?
4. Give the scientific name of silkworm moth.
5. What is blastopore?
6. What is embryonic induction?
7. What is conventional barn system?
8. Comment on emboly.
9. What is ultrasound scanning?
10. What is cleft palate?

**(10 × 1 = 10 Marks)**

P.T.O.

II. Answer any **eight** of the following questions. (Not to exceed **one** paragraph. Each question carries **two** marks)

11. What is shellfish culture?
12. Name any four freshwater ornamental fishes.
13. What are the major varieties of silkworm?
14. Comment on bee pasturage.
15. What is loose housing system?
16. Comment on Edwards syndrome.
17. What is sickle cell anaemia?
18. Briefly explain centrolecithal egg.
19. Comment on organizers.
20. Briefly explain gene cloning.
21. What are stem cells?
22. Which are the major cultivable fishes of Kerala?

**(8 × 2 = 16 Marks)**

III. Answer any **six** of the following questions. (Not to exceed **120** words. Each question carries **four** marks.

23. Explain the life history of silkworm.
24. Comment on composite fish culture.
25. What are the major bee keeping equipments?
26. Give an account on the advantages of dairy farming.

27. What are the most common diseases of poultry?

28. Comment on pedigree analysis.

29. Differentiate between autosomal and sex chromosomal syndromes.

30. Comment on morphogenetic movements.

31. Give brief account on amniocentesis.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following questions. Each question carries 15 marks.

32. Explain the setting up of a typical aquarium with the help of a diagram.

33. Write an essay on the social organization of honey bees.

34. Define cleavage and describe the various types and patterns of cleavage with diagrams.

35. Give an account on human genetic disorders.

(2 × 15 = 30 Marks)