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M – 4632

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, February 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Biochemistry

ZO 1431.1 – APPLIED ZOOLOGY

(2019 Admission)

Special Examination

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary

SECTION – A

Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.

1. Name two scientists whose discoveries revolutionized apiculture.
2. What are the chemical constituents of bee wax?
3. Name the compounds that can be extracted from silk worm faeces.
4. What is comb foundation?
5. Write the names of any two enemies of honey bee.
6. Who is the first test tube baby of the world?

P.T.O.



7. Define morula.
8. What is Nieuwkoop centre?
9. Alfa fetoprotein test.
10. What is meant by totipotency?

(10 × 1 = 10 Marks)

SECTION – B

Answer any eight of the following. Each question carries 2 marks.

11. Classify *B. mori* based on generations per year.
12. List the signs of molt in silkworm.
13. Differentiate between cage culture and pen culture.
14. What is mariculture?
15. Comment on fishing crafts.
16. Algal blooms?
17. Royal jelly
18. Uses of silk.
19. What is stifling?
20. Define bee pasturage. Give examples.
21. How we can select the best layer bird?
22. Name any four diseases of dairy and their causative agents.
23. What is meant by pedigree analysis?



24. What is chromosomal nondisjunction? Write one effect of chromosomal nondisjunction.
25. Blastocyst.
26. Comment on grey crescent.

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** of the following questions. **Each** question carries **4** marks.

27. Write on composite fish culture.
28. Give a short account on aquarium plants.
29. Write a brief account on fishing gears.
30. Enumerate the common names and scientific names of honey bees used in apiculture.
31. Describe the diseases and pests of silkworms.
32. Explain the types of dairy farming,
33. Briefly describe the diseases of poultry.
34. Explain the typical human karyogram.
35. Write on human genome project.
36. Prenatal diagnostic techniques?
37. Elaborate the steps involved in Test tube baby program.
38. Explain the technique involved in the reproductive cloning of Dolly.

(6 × 4 = 24 Marks)



SECTION – D

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

39. Describe the steps involved and precautions to be taken while setting up an aquarium.
40. Explain the process of pearl culture.
41. Write on apiary management and maintenance. Add a note on bee keeping equipment.
42. Enumerate in detail the breeds of poultry.
43. Write an essay on chromosomal and single gene disorders.
44. Classify eggs based on different criteria, with examples for each.

(2 × 15 = 30 Marks)

