



QP CODE: 21100861

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2021**

**Fourth Semester**

**Complementary Course - ZY4CMT04 - ZOOLOGY- APPLIED ZOOLOGY**

(Common for B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany and Biotechnology Model III Double Main, B.Sc Family & Community Science Model I, B.Sc Food Science & Quality Control Model III, B.Sc Biological Techniques and Specimen Preparation Model III, B.Sc Botany Model II Plant Biotechnology, B.Sc Food Technology & Quality Assurance)

2017 Admission onwards

BB5B61AD

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Define thermocline.
2. Define integrated fish culture.
3. Name two fresh water food fishes of Kerala.
4. What is gas bubble disease?
5. Give the scientific names of 2 culturable prawns.
6. What is raft culture?
7. What is meant by univoltine in sericulture?
8. Which are the different stages in the life history in mulberry worms?
9. Name two exotic earthworm species.
10. What is Clitellum?



11. Name the fertile female of the bee colony.
12. What is the chemical composition of bees wax?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries 5 marks.*

13. Explain composite fish culture.
14. What is the importance of algae in aquaculture?
15. Describe how nuclear graft is implanted in pearl culture.
16. Give an account on Silkworm rearing Techniques.
17. Write on defective cocoons in sericulture.
18. Write on the nitrogen transformations in soil by earthworms.
19. Write a short note on the preparations of a vermibed.
20. Write a note on Indian Honey bee.
21. Describe the brood diseases of honey bees.

(6×5=30)

**Part C**

*Answer any **two** questions.*

*Each question carries 10 marks.*

22. Write on the steps involved in induced breeding in carp & prawn.
23. Elaborate on fish processing and preservation technology.
24. Illustrate the microbial diseases& their control measures in sericulture.
25. Explain apiary management and maintenance.

(2×10=20)

