

QP CODE: 20100861

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Reg No : .....

Name : .....

## B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2020

### 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

3D248176

Time: 3 Hours

Marks: 60

#### Part A

*Answer any ten questions.*

*Each question carries 1 mark.*

1. Mention the term epilimnion.
2. Define Polyculture.
3. What are the advantages of induced breeding?
4. Name the major producers of aquatic ecosystems.
5. What are Pokkali fields?
6. What are the 2 methods of packing in fish preservation process?
7. What is Silk?
8. Comment on muscardine in silkworms.
9. What are endogeic earthworms?
10. What is vermibed?
11. What is the function of mandibles of worker bee?
12. Name two discoveries which revolutionized the bee keeping industry.

(10×1=10)

#### Part B



*Answer any **six** questions.  
Each question carries **5** marks.*

13. Differentiate bypass channel from spill way in pond culture.
14. Write a short essay on Metahaline culture.
15. Describe the protozoan diseases in fishes and their preventive measures.
16. Describe the handling methods of silkworms in rearing.
17. What is chandrika?
18. Describe the life cycle of earthworms.
19. Explain management & maintenance of vermicomposting process.
20. What are the uses of honey?
21. Describe brood diseases in honey bees.

(6×5=30)

**Part C**

*Answer any **two** questions.  
Each question carries **10** marks.*

22. Give an account of Common cultivable fishes of Kerala.
23. Describe pearl culture.
24. Describe mounting and processing of silkworm cocoons in sericulture.
25. Write an essay on the different species of bees used in apiculture.

(2×10=20)