



21101639

QP CODE: 21101639

Reg No :

Name :

**UNDER GRADUATE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS,
JULY 2021**

Fifth Semester

(Offered by the Board of Studies in Zoology)

**OPEN COURSE - ZY5OPT01 - VOCATIONAL ZOOLOGY (APICULTURE,
VERMICULTURE, ORNAMENTAL FISH CULTURE)**

2018 Admission Only

4F6E3EB7

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Importance of clay in aquarium.
2. What is *Ectoparasitism*?
3. What is breeding happa?
4. What is artificial feed?
5. Explain 'ichthyophthiriosis' disease in aquarium fishes.
6. Differentiate male and female quails.
7. What are the uses of quail egg and meat?
8. Discuss the term hermaphrodite with example.
9. Write the scientific names of any two exotic species of earthworms used in vermicomposting.
10. Define growth period in an apiary.
11. Write down the significance of bee pasturage.
12. Explain European foul-brood disease in apiary.

(10×2=20)

Part B

*Answer any **six** questions.*





Each question carries 5 marks.

13. Explain different types of aquarium with its speciality.
14. Explain various methods involved in the removal of waste from an aquarium.
15. Give an account on various fish feeds involved in ornamental fish culture.
16. What are the steps to be considered when live fishes are transported?
17. Discuss the feed management and preparation of feed for quails.
18. 'Earthworms are the most suitable means for waste management' Explain.
19. Give an account on the uses and species of honeybees.
20. Describe the structure of movable frame hive used in apiculture.
21. Give an account on by-products of honeybees.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain present status of ornamental fish culture in India with special reference to Kerala.
23. Write an account on quail farming.
24. Explain the methodology of vermiculture and vermicomposting.
25. Describe the major adaptive and morphological features of worker, drone and queen.

(2×15=30)

