(Pages : 3) N – 1376

ALL SAINTS COLLEGE LIBRARY
No.
TRIVANDRUM

Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, April 2022

First Degree Programme Under CBCSS

Zoology

Elective Course

ZO 1661.1 : ECONOMIC ZOOLOGY - VERMICULTURE AND APICULTURE

(2018 & 2019 Admission)

Time : 3 Hours Max. Marks : 80

PART – I (Very short answer type)

(Answer **all** and should not exceed **2** sentences)

1. Royal Jelly
2. Honey flow period
3. Vermibed
4. Dammer bee
5. Greater wax moth
6. Pollen basket
7. Windrows Method
8. Vermiremediation
9. Indian blues
10. Phytophagous.

(10 × 1 = 10 Marks)

P.T.O.

PART – II (Short answer type)

(Answer any **eight** and should not exceed one paragraph)

11. Write the uses of beeswax.
12. What are the advantages of honey extractor?
13. Explain two types of dance that make the communication among bees.
14. Comment on Nuptial flight.
15. Write a brief account on Bee Pasturage.
16. Role of brood chamber in the bee hive.
17. Comment on detritivore with suitable example.
18. What is the difference between active phase and maturation phase?
19. Earthworms are the 'intestines of earth'. Discuss.
20. Discuss the features of Eudrillus eugeniae.
21. What are setae? Discuss the functions of setae.
22. Discuss the terms vermiculture and vermicomposting.
23. Differentiate Prostomium and Peristomium.
24. Write note on Red Wiggler.
25. What is comb foundation?
26. Give an account on Rock bee.

(8 × 2 = 16 Marks)

PART – III (Short Essay)

(Answer any **six** and should not exceed **150** words.)

27. Write the major bee diseases and their symptoms?
28. Explain various byproducts of Honey Bees?
29. Discuss the behaviour of worker bees?

30. Describe the metamorphosis of honey bees.

31. How Earthworms help in decomposition?

32. Explain different methods to harvest worm castings.

33. Discuss the advantages of vermicomposting.

34. Explain ecological classification of earthworms.

35. Discuss the breeding and life cycle of earthworms.

36. Explain the vermicompost profile and its applied aspects.

37. Describe the methods to control swarming.

38. Discuss the importance of growth period, honey flow period and death period.

(6 × 4 = 24 Marks)

PART – IV (Long Essay)

(Answer any **two** and should not exceed **500** words)

39. Describe the organization of honey bees.

40. Write an essay on bee keeping methods and equipments.

41. Write an essay on indigenous and exotic species of earthworms used in vermicomposting.

42. 'Earthworms are the most suitable means for waste management' Explain.

43. Write an essay on honey bee species used for apiculture in India.

44. Explain the environmental requirements of earthworms.

(2 × 15 = 30 Marks)
