

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2024

First Degree Programme under CBCSS

Zoology

Elective Course

ZO 1661.1 : ECONOMIC ZOOLOGY- VERMICULTURE AND APICULTURE

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary

- I. Answer the following questions (In one or two sentences, 1 mark each).
1. What is prostomium?
 2. Comment on regeneration in earthworms:
 3. What are epigeic earthworms
 4. Name an exotic earthworm species
 5. What is queen excluder?
 6. Comment on dammar bees
 7. What is bee hive?
 8. What is royal jelly?

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9. Comment on *Apis mellifera*

10. What is queen gate?

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following questions. (Not to exceed one paragraph. Each question carries **2** marks.

11. Comment on smoker

12. Comment on bee pasturage

13. What is vermi bed?

14. Comment on *Eudrillus euginae*

15. Explain the caste system in honey bees

16. Comment on vermin enrichment

17. What is a bee venom?

18. What are the various apiculture products?

19. Comment on indigenous methods in apiculture

20. Briefly explain Nosema disease

21. What is apitherapy?

22. Comment on Acrine disease

(8 × 2 = 16 Marks)

III. Answer any **six** of the following questions. (Not to exceed **120** words. Each question carries **4** marks.

23. Briefly explain the procedures for preparing the vermi bed

24. Comment on the pests and pathogens of earthworm

25. What are the economic uses of vermiculture?

26. Give an account on the brood disease
27. What are the honey extraction appliances?
28. Explain the nutrient profile of honey
29. Differentiate between a worker and a drone
30. Comment on the marketing strategies of apiculture products
31. Give a brief account on the common species of honey bees

(6 × 4 = 24 Marks)

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

32. Give an account on the nature, categories and various species of earthworms
33. Write an essay on the physical, chemical and biological parameters of vermicast
34. Give an account on the social life and adaptations of honey bees
35. Write an essay on maintenance and management of an apiary unit.

(2 × 15 = 30 Marks)