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Reg. No. : .....

Name : .....

## Sixth Semester B.Sc. Degree Examination, March 2020

### First Degree Programme Under CBCSS

### Elective Course

## ZO 1661.1 – ECONOMIC ZOOLOGY – VERMICULTURE AND APICULTURE

### (2015 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Answer the following questions (In one or two sentences)

1. Anegic
2. Vermicomposting
3. *Apis dorsata*
4. Bee veil
5. Exotic species
6. Bee venom.
7. Queen excluder
8. Pollen basket
9. Apiary
10. Clitellum.

**(10 × 1 = 10 Marks)**

P.T.O.

II. Answer **any eight** of the following Not to exceed One paragraph (**2** marks each).

11. Distinguish between endogeic and epigeic worms.

12. Name four species of honey bees used in apiculture.

13. Enlist the pests and pathogens in vermicomposting.

14. Comment on Dammar bee.

15. Vermiremediation.

16. What are the duties of Queen and drones?

17. Comment on Wasps.

18. Enumerate the optimum conditions for breeding *Eisenia foetida*.

19. Swarming.

20. Bee pasturage.

21. Vertical migration.

22. Brood diseases.

**(8 × 2 = 16 Marks)**

III. Answer **any six** of the following Not to exceed **120** words (**4** marks each).

23. Explain beeswax.

24. Comment on communication in honey bees.

25. Add a note on two tank and four tank system in vermicomposting.

26. Write a brief note on social life in honey bees.

27. Describe the economic uses of vermiculture.

28. Comment on extraction of honey from the comb and its processing.

29. What are the environmental prerequisites for vermicomposting?

30. Explain the equipments for handling honey bees.

31. Give an account on vermiwash.

**(6 × 4 = 24 Marks)**

IV. Answer **any two** of the following (**15** marks each).

32. Describe various equipments and accessories used in apiculture.

33. Explain the various diseases of honey bees and their causative agents.

34. Add a note on vermicomposting, maintenance and its monitoring.

35. Write an essay on identification of four species of earthworms based on their morphology.

**(2 × 15 = 30 Marks)**