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Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, March 2021

First Degree Programme under CBCSS

Zoology

Elective Course

ZO 1661.1 : ECONOMIC ZOOLOGY – VERMICULTURE AND APICULTURE

(2015 - 2017 Admissions)

Time : 3 Hours Max. Marks : 80

SECTION – A

(Answer the following questions (in one or two sentences. 1 mark each)

1. Drone
2. Cocoon
3. Super chamber
4. Epigeic
5. Bee venom
6. Melipona irridipennis
7. Royal jelly
8. Hive tool
9. Biofertilizer
10. Any two enemies of bee.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** of the following. (not to exceed one paragraph. Each carries **2** marks)

11. Swarming

12. Dearth period

13. Pollen basket

14. Species of earthworms in vermicomposting

15. Mouthparts of honey bee

16. Chemical composition of honey

17. Clitellum

18. (a) Eye brush

    (b) Bee brush

19. Earthworms and nitrogen transformation.

20. Beeveil

21. Environmental requirements in vermicomposting.

22. Honey flowperiod.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** of the following (not to exceed **120** words. Each carries **4** marks)

23. Explain the communication in honeybees.

24. Comment on the nature and habits of earthworms.

25. Explain the different species of honey bees.

26. Comment on *Eisenia foetida*.

27. Describe the structure of bee box.

28. Explain the significance of vermi-remediation.

29. Comment on the uses of bees wax.

30. Explain the advantages of vermicomposting.

31. Add a note on extraction of honey from the comb and processing.

(6 × 4 = 24 Marks)

SECTION – D

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

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

33. Explain the various steps in vermicomposting. Add a note on maintenance, harvesting and storage of vermicompost.

34. Describe the various pests, diseases and remedies of honey bees.

35. Explain the lifecycle of earthworms. Describe their role in the management of solid wastes.

(2 × 15 = 30 Marks)