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Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, April 2019
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** mark **each**).

1) Nectar foragers.
2) Trommel device.
3) Melipona.
4) Vermicast.
5) Optimum temperature of honey bee colony.
6) Dearth period.
7) Name the species of earthworm which usually prefer cow dung as their food.
8) Honeycomb.
9) Maturation phase of vermicomposting.
10) Drone.

(10×1=10 Marks)

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

11) Royal jelly.
12) Bee wax.
13) Nematode pathogen of earthworms.
14) Earthworms are suitable for solid waste management. Justify.
15) Metathoracic leg modification of honey bee.

P.T.O.

16) *Perionyx excavatus.*

17) Smoker.

18) Supplemental feeding of honey bee colonies.

19) Effect of temperature in vermiculture.

20) Nuptial flight.

21) Chemical effect of vermiculture.

22) Processing of honey. **(8×2=16 Marks)**

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

23) What are the important points to remember while feeding earthworms ?

24) Briefly explain the duties of worker honey bees.

25) Comment on the pests of honey bees.

26) Classify earthworms based on habitat.

27) Discuss the structure of Langstroth hive.

28) Mention different harvesting techniques of vermicompost.

29) Comment on bee dance.

30) What are the major pests and pathogens in vermicomposting ?

31) Briefly explain apiary management. **(6×4=24 Marks)**

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

32) Discuss the diseases of honey bees.

33) Write an essay on types of containers and techniques used for vermicomposting .

34) Explain the characters and advantages of common species of honey bees used for apiculture in India.

35) Mention the economic importance of vermiculture. **(2×15=30 Marks)**
