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RNLKWC/B.Sc.-CBCS/HIS/ZOO/H/SEC1T-22

2022

Zoology

[HONOURS]

(CBCS)

(B.Sc. Third Semester End Examination-2022)

PAPER-SEC1T

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

1. Answer any five questions of the following: 5x2=10
- a) Write the scientific name of any two commercially used honeybee of India.
  - b) What is pollen basket?
  - c) Why is honey bee regarded as a 'polymorphic' species?
  - d) What is swarming?
  - e) What is the role of a drone in bee colony?
  - f) Name two avian enemies of honey bee.
  - g) What is smoker?
  - h) What is 'Nuptial flight'?

(2)

2. Answer any four questions of the following: **4x5 = 20**

a) Write a short note on (i) Bee-Bread and (b) Bee-wax

$$2\frac{1}{2} + 2\frac{1}{2}$$

b) Define propolies. How it is used?

2-3

c) Mention the characters of any two castes of honey bee.

$$2\frac{1}{2} + 2\frac{1}{2}$$

d) Write an account on the Newton box with diagram.

5

e) Mention the chemical composition of honey. State the uses of honey.

3-2

f) What is royal jelly? State its significance.

2-3

3. Answer any one question:

**1x10 = 10**

a) Discuss the role of workers in bee hive. Briefly describe the dance language of honey bee. What is the significance of bee dance?

2+8

b) Mention any two type of diseases of honey bee with its causative agents, symptoms and control measures.

5+5

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