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Course: B.Voc Agriculture
Subject: Bee Keeping, Subject Code: AGB 21506
Semester: V

Time: 03 Hours**Max Marks: 70****Instructions to the Students:**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 20 marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 10 marks.
4. Do not write anything on the question paper.

Q. No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1. a.	What is swarming?	(2)
b.	First 'bee keeping research station' in India was established.	(2)
c.	Write the chemical composition of honey?	(2)
d.	Who is known as the father of modern bee science?	(2)
e.	What is Nuptial flight?	(2)
f.	What is propolish?	(2)
g.	What is CBRTI and where is located?	(2)
h.	What does the round dance of the honey bee indicate?	(2)
i.	When was <i>Apis mellifera</i> introduced in India?	(2)
j.	What is the duration between egg hatching to development of queen bee?	(2)

SECTION –B (LONG ANSWER TYPE QUESTIONS)

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| 2. | What are the benefits of beekeeping as an agro-based enterprise? | (10) |
| 3. | Which honey bee species is good honey producer and why? | (10) |

3. Explain the "Division of Labour" concept? (10)
4. How the honey bee colonies work on the "Division of Labour" concept? (10)
5. Explain the Larva, Pupa and adult stages in bee development? (10)
6. How will you select an apiary site and What is the advantages of bee pollination? (10)
7. What is royal-jelly and royal-actin and how is importance and Explain the feature of Queen bee? (10)
8. Write four economically important species of honey bee found in India and Mention any four uses of honey? (10)
9. Write the importance of bee pasture and How bee communicate through waggle and round dance? (10)

==END OF PAPER==