

GOVERNMENT LAWNGTLAI COLLEGE
EXAMINATION
CLASS : 4TH SEMESTER
SUBJECT : SEC280 (Beekeeping)

Full Marks :75

(PART : A – OBJECTIVE)
(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION – A
(Marks : 10)

Tick () the correct answer in the brackets provided : 1x10 = 10

1. The average life span of a queen bee in an Indian honeybee colony is typically
(a) 6 years () (b) 10 years ()
(c) 3-5 years () (d) 1 years ()
2. What is the primary purpose of a bee smoker in beekeeping?
(A) To collect honey from the hive ()
(B) To control pests and diseases in the hive ()
(C) To calm the bees by producing a smoke that masks alarm pheromones ()
(D) To mark the queen bee ()
3. Which of the following is a common disease affecting honey bees?
A) Varroosis ()
B) American Foulbrood ()
C) Nosema ()
D) All of the above ()
4. What is the role of the queen bee in a honey bee colony?
A) To forage for nectar and pollen ()
B) To defend the hive from predators ()
C) To lay eggs and ensure the colony's population growth ()
D) To produce honey ()
5. What is the recommended distance between beehives in an apiary?
A) 1-2 feet ()
B) 5-10 feet ()
C) 10-20 feet ()
D) 20-30 feet ()
6. What is the purpose of a queen excluder in beekeeping?
(A) To keep worker bees from accessing the brood nest ()
(B) To control the temperature of the hive ()
(C) To prevent the queen from laying eggs in the honey super ()
(D) To monitor the queen's movement ()

7. What is the importance of protective clothing in beekeeping?
A) To collect honey from the hive ()
B) To inspect the hive without disturbing the bees ()
C) To mark the queen bee ()
D) To prevent bee stings and protect the beekeeper's skin ()
8. What is the role of drones in a honey bee colony?
(A) To lay eggs and ensure the colony's population growth ()
(B) To forage for nectar and pollen ()
(C) To defend the hive from predators ()
(D) To mate with the queen bee ()
9. What is the recommended time to harvest honey from a beehive?
(A) When the honey flow is at its peak ()
(B) When the hive is full of honey ()
(C) When the bees are actively foraging ()
(D) When the honey has reached the desired moisture content ()
10. What is the importance of regular hive inspections?
(A) To collect honey from the hive ()
(B) To monitor the hive's population and health ()
(C) To control pests and diseases ()
(D) To mark the queen bee ()

SECTION – B
(Marks – 15)

Answer the following questions :

$$3 \times 5 = 15$$

1. What is beekeeping? What is the difference between apiculture and beekeeping?

Or

What are the benefits of beekeeping?

2. What are the honeybee species found in India, along with their scientific names?

OR

Describe the wax moth, a pest in beekeeping, and its management.

3. What are the roles of worker bees and drones in a beehive?

OR

Describe the external anatomy of a honeybee.

4. What is the role of a queen bee in a colony?

OR

What are Langstroth hives and Flow hives, and what are their advantages and disadvantages?

5. What are the differences between traditional bee box and modern bee box?

OR

What is honey, and what is a honeybee?

(PART : B – DESCRIPTIVE)
(Marks : 50)

The questions are of equal value

1. a) What is beekeeping? What are the benefits of beekeeping, and what are the different communication methods used by honeybees?
OR
b) What are the recommended practices for selecting a good apiary site?
2. a) How do honeybees produce beeswax? What is bee swarming in beekeeping, and how does it differ from absconding?
OR
b) What are the important diseases and pests of honeybees, and what are their management strategies for the following: (i) Wax moth, (ii) Ants, (iii) Pirate wasp, (iv) Varroa mite, and (v) Nosema disease?"
3. a) What is the anatomy and physiology of honeybees?
OR
b) What is the role of castes in a beehive?
4. a) What is the life cycle of a honeybee?
OR
b) What are the different types of bee hives, and what are their pros and cons?
5. a) What is the importance of beekeeping for pollination services and environmental benefits?
OR
b) What are the methods for identifying the harvesting stage of honey, and what are the scientific honey extraction methods?

