

B.Sc. (Hons.) Horticulture

Note :

1. Solve **ANY EIGHT** questions from **SECTION "A"**.
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

- Q.1 Define insect. Explain the characters responsible for dominance of class Insecta.
- Q.2 Describe nervous system in insect with neat labeled diagram.
- Q.3 Enlist different types of mouthparts in insects with examples of describe mouthparts of cockroach.
- Q.4 Describe the structure of insect integument with labeled diagram and mention its functions.
- Q.5 Define metamorphosis and describe its types with suitable examples.
- Q.6 Explain structure of typical insect antenna with will labeled diagram and enlist its types with one example each.
- Q.7 State the economic importance and distinguishing characters of order Hemiptera and enlist its four important families with one example each.
- Q.8 Explain female reproductive system of cockroach with well labeled diagram.
- Q.9 Write short notes (Any Two).
 - a) Sense organs in insects
 - b) Wing coupling apparatus
 - c) Structure of typical insect leg
- Q.10 Write economic importance and distinguishing characters of order coleoptera and enlist its four important families with one example each.

Q.11 a) State exact function of the followings.

1) Peritrophic membrane	2) Halteres
3) Taenidia	4) Johnston's organ

b) Define the following terms.

1) Systematic	2) Genus
3) Taxonomy	4) Species

Q.12 Mention order of the following insects.

1) Mantid	2) Termite	3) Butterfly	4) Honeybee
5) Dragonfly	6) Field cricket	7) Thrips	8) House fly

