

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory.
 2. Draw neat, labelled diagrams wherever necessary.
 3. Figures to the right indicate full marks.

Q.1 Write an account on general characters and classification of order Hymenoptera giving examples of economically important insects. **12**

OR

- Q.1** Give an account on:
- a. Any two families of Siphonoptera **06**
 - b. Important families of Neuroptera **06**

Q.2 Describe the structure of wing and coupling apparatus in insects. **12**

OR

- Q.2** Write briefly on :
- a. Genital appendages in insects **06**
 - b. Modifications of legs in insects **06**

Q.3 Describe the structure of circulatory system and mechanism of circulation in insects. **12**

OR

- Q.3** Write an account on :
- a. Spermatogenesis in insects **06**
 - b. Chemoreceptors in insects **06**

Q.4 Give an account of complete and incomplete metamorphosis in insects. **12**

OR

- Q.4** Describe in brief :
- a. Hormonal regulation of osmoregulation in insects **06**
 - b. Chemical structure of hormones in insects **06**

Q.5 Write notes on (Any two) **12**

- a. Any two families of Lepidoptera
- b. Structure of abdomen
- c. Vitellogenesis
- d. Hormonal regulation of reproduction in insects