

**Q.P. Code :27792**

**[Time: 2 $\frac{1}{2}$  Hours]**

**[ Marks: 60]**

Please check whether you have got the right question paper.

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

- Q.1** Classify Hemiptera and describe its families of economic importance giving suitable examples **12**
- OR**
- Q.1** Write a brief account on
- a. General characters and classification of Thysanura **06**
  - b. General characters of Orthoptera **06**
- Q.2** Describe segmentation and endoskeleton of insect head **12**
- OR**
- Q.2** Write a brief account of
- a. Structure of integument in insects **06**
  - b. Sponging mouth parts in insects and their feeding mechanism **06**
- Q.3** Give an account of **(any two)**
- a. Principal and accessory organs of secretion in insects **06**
  - b. Structure of gut in insects **06**
  - c. Aerial respiration in insects **06**
  - d. Physiology of digestion in insects **06**
- Q.4** Describe briefly **(any two)**
- a. Histology of neuro – endocrine glands in insects **06**
  - b. Early embryonic development in insects **06**
  - c. Types of eggs in insects **06**
  - d. Types of pupae in insects **06**
- Q.5** Write notes on **(any two)**
- a. General characters of Odonata **06**
  - b. Types of antennae in insects **06**
  - c. Aquatic respiration in insects **06**
  - d. Types of larvae in insects **06**