## M.Sc.(Zoology) Third Semester (old)

## MSC11-1 - Special Group- Entomology-I Paper-XI (Insect Morphology and Physiology) Zoo-11

P. Pages: 1 GUG/W/18/2318 Time: Three Hours Max. Marks: 80 Notes: 1. All Que. are compulsory. All Que. carry equal marks. 2. 3. Draw well labelled diagram wherever necessary. 1. Describe in detail Insect integument its Molecular structure and Moulting. 16 OR Write notes on. Wing structure and Mechanism. Insect Legs and genitalia. b) Give the account on structure of salivary gland add a note on Mechanism of digestion. 16 2. OR Write a notes on Tracheal and Aquatic respiratory mechanism. a) Hemolymph cellular and chemical composition. b) **3.** Give a account on structure and anatomy of brain. 16 OR Write notes on Physiology of excretion. a) Pheromones chemistry and function. b) 4. Give a account on Viviparily and parthenogenesis. 16 OR Write notes on Types of larvae and pupae. a) Spermatogenesis and vitellogenesis. 5. Attempt the following. 16 Abdomen. a) Feeding mechanism. b) Metamorphosis. c) Germ band Formation. d) \*\*\*\*\*\*