

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END EXAMINATION**

**B.Sc. (Hons.) Agriculture**

<b>Semester</b> : III (New)	<b>Term</b> : I	<b>Academic Year</b> : 2018-19
<b>Course No.</b> : ENTO 232	<b>Title</b> : Insect Ecology and Integrated Pest Management	
<b>Credits</b> : 2(1+1)		
<b>Day &amp; Date</b> : Friday, 16.11.2018	<b>Time</b> : 9.00 to 11.00	<b>Total Marks</b> : 40

- 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.

**SECTION "A"**

- Q.1 Define insect ecology. Explain effect of temperature on insect population.
- Q.2 Enlist causes of insect pest outbreak and describe any two.
- Q.3 Describe in brief cultural method of pest management with suitable examples.
- Q.4 Classify insecticides on the basis of chemical nature by giving single example of each group.
- Q.5 Enlist categories of pest and describe any two.
- Q.6 Enlist the characteristics of an ideal parasitoid.
- Q.7 Define insecticide formulation. Enlist its types and describe EC formulation.
- Q.8 State first-aid treatments used in early stages of insecticide poisoning cases.
- Q.9 Define IPM. Enlist its tools and describe importance of IPM.
- Q.10 Write short notes (Any Two).
  - a) Environment and its components
  - b) Concept of balance of life
  - c) Mechanism of host plant resistance

**SECTION "B"**

- Q.11 Do as directed.
  - 1) Sun drying of grains is \_\_\_\_\_ method of pest management (Fill in the blank).
  - 2) The 'Insecticide Act' passed in the year 1968 in India (State true or false).
  - 3) Bagging of fruit is (mechanical/physical/cultural) method of pest management.  
(Select appropriate word).
  - 4) State the function of nozzle.
- Q.12 Define the following terms.
  - 1) Habitat
  - 2) Repellant
  - 3) Antidote
  - 4) Phytotoxicity

