MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION
B.Sc. (Hons.) Agriculture

Semester	: III (New)	**Term**	: I	**Academic Year**	: 2019-20
Course No.	: ENTO 232	**Title**	: Insect Ecology and Integrated Pest Management		
Credits	: 2(1+1)				
Day & Date	: Monday, 11.11.2019	**Time**	: 09.00 to 11.00	**Total Marks**	: 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 and explain effect of biotic factors on insects with suitable examples.

Q.2 Define Pest. Enlist different methods of pest control and explain mechanical method with suitable examples.

Q.3 Define Microbial control. Explain role of micro-organisms in pest management with example.

Q.4 Describe scope and importance of Integrated Pest Management.

Q.5 Describe cultural methods of pest management with suitable examples.

Q.6 Define insecticide. Classify insecticides on the basis of mode of entry with suitable example.

Q.7 Write short notes. (Any Two)

a) Pest Surveillance and Forecasting b) Balance of Nature

c) Insecticide Act, 1968

Q.8 Define Adjuvant. Explain the necessity of insecticide formulation.

Q.9 Enlist different application techniques of insecticide and describe any one.

Q.10 What is pest outbreak? Describe the factors responsible for outbreak of insect pests in nature.

SECTION "B"

Q.11 Define the following terms.

1) LC_{50} 2) ETL

3) Adjuvants 4) Hyper parasitism

Q.12 Match the following pairs.

'A'	'B'
1) *Bt*	a) White fly
2) Genetic control	b) Potato tuber moth
3) Yellow stick trap	c) E.F.Knippling
4) *Copidosoma koehleri*	d) Stomach poison

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