MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

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Semester	:	IV (Old)	Term	:	II Acade	mic Year : 2017-18	
Course No.	:	ENTO 242	Title	:	: Insect Ecology, Integrated Pest		
Credits	:	3 (2+1)		Management and Beneficial Insects			
Day & Date	:	Friday, 27.04.2018	Time	:	14.00 to 17.00	Total Marks : 80)

Note: 1. Solve ANY EIGHT questions from SECTION "A".

- All questions from SECTION "B" are compulsory.
- 3. All questions carry equal marks.
- Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Define Integrated Pest Management (IPM). Discuss in brief concepts of IPM.
- Q.2 Give classification of insecticide based on chemical composition along with any one example.
- Q.3 Describe cultural methods of pest management with suitable examples.
- Q.4 a) Describe any four causes of pest outbreak in agro-ecosystem.
 - b) Explain the effect of abiotic factors on insect population.
- Q.5 a) Describe mass production technique of Cryptolaemus montrouzieri.
 - b) Explain the role of microorganisms in insect pest management.
- Q.6 Explain mechanical methods of pest control.
- Q.7 Write short notes (Any Two).
 - a) Species of honey bees
- b) Mass multiplication of HaNPV

- c) Rodent management
- Q.8 a) Enumerate the characteristics of ideal parasitoid.
 - b) Discuss physical methods of insect pest management.
- Q.9 Describe the importance of sericulture. Explain in brief rearing technique of mulberry silkworm for production of cocoons.
- Q.10 Describe the insecticidal formulations along with their examples.

SECTION "B"

- Q.11 Define the following terms.
 - 1) LD₅₀
- 2) Apiculture
- 3) ETL
- 4) Systemic insecticide

- Repellent
- 6) Antixenosis
- 7) Moriculture
- 8) Key pest

- Q.12 Answer in one sentence.
 - 1) What is pest surveillance?
 - Give any one example of insect predator.
 - State the alkaloid present in neem.
 - 4) Name the antidotes for poisoning due to OP insecticides.
 - 5) What is pheromone?
 - 6) Give an example of chemosterilant.
 - 7) Name the host crops Rangini strain of lac insect.
 - 8) In which year the insecticides Act was passed in India?
