MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

	B.Sc. (Agri.)						
Semester Course No. Credits	: SSAC 243						
Day & Date		: 80					
Note :	 Solve ANY EIGHT questions from SECTION "A". All questions from SECTION "B" are compulsory. All questions carry equal marks. Draw neat diagrams wherever necessary. 	,					
	SECTION "A"						
Q.1 a) WI	hat is organic recycling? Enlist the sources of organic matter. Give the general	1					
con	mposition of organic matter.						
b) De	efine manures. Classify the manures with suitable examples.						
Q.2 a) WI	hat is vermicompost? Explain the pit method of preparation of vermicompost.						
b) WI	hat is green manuring? State its advantages and disadvantages.						
Q.3 a) De	a) Define fertilizers. Classify the nitrogenous fertilizers with suitable examples.						
b) De	efine sewage and sludge. Write its effect on soil and crop.						
Q.4 a) Giv	ve the general characteristics and advantages of complex fertilizers.						
b) Ho	ow will you improve the efficiency of phosphatic fertilizers for higher crop						
pro	oduction.						
Q.5 a) De	efine biofertilizers. Classify the biofertilizers with suitable example.						
b) De	efine herbicide. Write in brief the general mode of action of herbicides.						
Q.6 a) Wł	a) What are phytoharmones? Give its classification with suitable example.						
b) Gi	ve occurrence and mode of action of plant origin insecticides.						
Q.7 a) De	fine micronutrients. Write in brief the important role of micronutrients in crop	,					
	pwth.						
b) Gir	ve the classification and mode of action of organochloride insecticides.						
Q.8 a) De	fine pesticides and give its classification with suitable example.						
b) De	efine FYM. Enlist the methods of its preparation and explain any one.						
Q.9 a) De	fine composting. Explain Indore method of composting.						
b) De	fine fungicides. Give the structure and properties of organo-sulphur fungicide	s.					
Q.10 a) Eni	list the steps in development of pesticides.						
b) Wr	rite in brief on storage and handling of NPK fertilizers.						

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(P. T. O.)

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Q.	. 1	1	Match	the	tollo	wing	pairs.

"A"

- 1) Blood meal
- 2) Green leaf manuring
- 3) Defoliants
- 4) Schoenite
- 5) Chlorinated hydrocarbon
- 6) Thiobacillus
- 7) Nematicide
- 8) Attractant

- "B"
- a) Sulphur oxidizing microorganism.
- b) Methyl bromide
- c) Glyricidia
- d) Muscalure
- e) Marine salt
- f) Aldrin
- g) Sodium chlorate
- h) Concentrated organic manure

- Q.12 Fill in the blanks.
 - 1) The C:N ration of saw dust is
 - 2) During anaerobic decomposition of cowdung slurry _____gas is evolved.
 - The clear liquid that escapes from settling of sludge is known as
 - Lime induced chlorosis in field crop is due to deficiency of _____micronutrient.
 - 5) Ammonium molybdate contains _____ per cent Mo.
 - 6) _____is a living floating association of aquatic fern and algae which fixes atmospheric nitrogen in submerged soil.
 - 7) Carbaryl is classified as a insecticide.
 - Organophosphate insecticides affect the _____ enzyme present in synapse.

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