

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : IV (Old)	Term : II	Academic Year : 2018-19
Course No. : SSAC 243	Title : Manures, Fertilizers and Agrochemicals	
Credits : 3 (2+1)		
Day & Date : Friday, 10.05.2019	Time : 09.00 to 12.00	Total Marks : 80

- 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 a) What is organic recycling? Explain in brief the C: N ratios.
b) Define concentrated organic manures. Give its classification with suitable examples.
- Q.2 a) Enlist different types of compost and explain vermicomposting in brief.
b) State types of green manuring. Give advantages and disadvantages of green manuring.
- Q.3 a) Explain in brief the decomposition of organic compounds.
b) Differentiate between sewage and sludge.
- Q.4 a) Classify the nitrogenous fertilizers with suitable examples.
b) Give the general reactions of SSP and Rock phosphate in soil.
- Q.5 a) Explain in brief the management of nitrogenous fertilizers in soil.
b) Classify the potassic fertilizers and give the sources of potassic fertilizers.
- Q.6 a) Define complex fertilizers and explain in brief the advantages of complex fertilizers.
b) Define micronutrients and give the sources of micronutrient fertilizers.
- Q.7 a) Explain in brief the handling and storage of phosphatic and potassic fertilizers.
b) Define Biofertilizer and explain in brief the symbiotic nitrogen fixation.
- Q.8 a) Give the classification of pesticide with suitable examples.
b) Give the mode of action of organophosphate insecticides.
- Q.9 a) Write in brief the general mode of action of herbicides.
b) What are phytohormones? Give its classification with suitable examples.

(P.T.O.)

Q.10 Write short notes (Any two)

a) Fertilizer control order

~~b) Mode of action of lime sulphur~~

c) Bulky organic manures

d) Natural chelates

SECTION "B"

Q.11 Define the following terms.

1) Compost

2) Fertilizers

3) Manures

4) Nitrification

5) Anaerobic

6) Fungicide

7) Insecticide

8) Synthetic pyrethroids

Q.12 Answer in one sentence.

1) Give average chemical composition of FYM.

2) What are mycorrhizae?

3) Give one example of carbamate insecticide.

4) Give one example of water soluble phosphatic fertilizer.

5) Give the name of secondary nutrients.

6) Name the plant originated insecticide.

7) Name one defoliant.

8) Give one example of copper fungicide.

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