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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

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| Semester : IV (Old) | Term : II | Academic Year : 2017-18 |
| Course No. : SSAC 243 | Title : Manures, Fertilizers and Agrochemicals | |
| Credits : 3 (2+1) | Time : 14.00 to 17.00 | Total Marks : 80 |
| Day & Date : Saturday, 05.05.2018 | | |

- 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) Define organic recycling. State the significance of C: N ratio.
b) Differentiate between bulky and concentrated organic manures.
- Q.2 Write short notes (Any Four).
a) Fish meal
b) Losses during handling and storage of FYM
c) Complex fertilizer
d) Vermicompost
e) Poudrette
f) Ammonium nitrate
- Q.3 a) Define FYM. Explain Trench method of preparation of FYM.
b) Define composting. Describe Indore method of composting.
- Q.4 a) Define green manuring. Explain decomposition of green manuring in soil.
b) Define fertilizers. Classify the nitrogenous fertilizers with one example each.
- Q.5 a) Define micronutrient give the classification of micronutrient fertilizers.
b) Write in detail about handling and storage of N, P and K fertilizers.
- Q.6 a) Define bio-fertilizers. Elaborate the symbiotic and non symbiotic nitrogen fixation.
b) Classify the phosphatic fertilizers. Describe the management of phosphatic fertilizers in soil.
- Q.7 a) Explain in detail the plant originated insecticides.
b) Give the classification and mode of action of organochloride insecticides.
- Q.8 a) Give the classification and properties of potassic fertilizers.
b) Define phytohormones and give the classification of phytohormones.
- Q.9 a) Explain in detail the mode of action of herbicides.
b) Describe the insecticide Act.
- Q.10 a) Define pesticide. Give the classification of pesticides along with examples.
b) State the reaction of micro-nutrient in soil.

(P.T.O.)

SECTION "B"

Q.11 Define the following terms.

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|-------------------|--------------|
| 1) Chelate | 2) Sludge |
| 3) Sewage | 4) Fungicide |
| 5) Chemosterilant | 6) Inhibitor |
| 7) Ammonification | 8) Defoliant |

Q.12 Do as directed.

- 1) State any two examples of herbicides.
- 2) Name two crops grown in situ under green manuring.
- 3) What is mineralization of organic matter?
- 4) State one example of amide fertilizer.
- 5) Give two examples of fungicides.
- 6) State two examples of carbamates.
- 7) Name two edible and non edible oil cakes.
- 8) Give C: N ratio of soil and saw dust.

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