MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Academic Year : : Second Term : VI (New) Semester : ELE-SSAC 364 Course No. : Agrochemicals Title : 3 (2+1) Credits : 14:00 to 17:00 hrs. Total Marks: 80 Time : Saturday, 04.05.2024 Day & Date Solve ANY EIGHT questions from SECTION 'A'. Note:

- All questions from SECTION 'B' are compulsory. 2.
- All questions carry equal marks. 3.
- Draw neat diagram wherever necessary.

SECTION 'A'

- a) Explain in detail the methods of fertilizer application. Q.1
 - b) Define Fertilizers. Classify the phosphatic fertilizers with examples.
- a) Write advantages and disadvantages of agrochemicals used in agriculture. Q.2
 - b) Classify micronutrient fertilizers with suitable examples.
- a) Define Biofertilizers and explain the role of biofertilizers in agriculture. Q.3
 - b) Comment on the residual effect of herbicides.
- a) Write short note on handling and storage of fertilizers. Q.4
 - b) Define Insecticide. Write in brief about plant-originated insecticides Nicotine and Pyrethrum.
- a) Give classification of fungicides with suitable examples. Q.5
 - b) Define Agrochemicals. Write in short types of agrochemicals.
- a) Write down management of nitrogenous fertilizers for crop production. Q.6
 - b) Write classification of pesticides with suitable examples.
- a) Give classification of herbicides based on mode of action with suitable examples. Q.7
 - b) How does symbiotic nitrogen fixation take place in soil?
- Q.8 a) Comment on Insect Growth Regulator and Biopesticide.
 - b) Discuss insecticide resistance and its management.
- a) Write in short about mode of action of organophosphate insecticide. Q.9
 - b) Write about Fertilizer Control Order and Insecticide Act.
- 0.10 a) Define Benzimidazole fungicide. Write their chemical nature and use.
 - b) What are Complex fertilizers? Give its advantages.

(P.T.O.)

2023-24

SECTION 'B'

Q.11 Match the pairs:

'A'

B'

1) Azotobacter

a) KCI

2) Zinc

- b) Nerve poison
- 3) Complex fertilizer
- c) Chelate

4) Sylvite

d) 1985

5) IGR

e) Micronutrient

6) Pyrethrum

f) Biofertilizer

7) EDTA

- g) 19:19:19
- 8) Fertilizer Control Order
- h) Insect growth regulators

Q.12 Do as directed:

- 1) Give the example of Secondary nutrients.
- 2) Name any one fungicide used in agriculture.
- 3) State two examples of herbicides.
- 4) NaNO₃ is not suited for top dressing and side dressing, when growing crop needs N immediately. (State True or False)
- 5) Carbamate insecticides are esters of _____ acid. (Fill in the blank)
- 6) Insecticide Act was passed in 1968 and brought into force in India in the year 1971/1981. (Choose the correct answer)
- 7) Write the example of Potassic fertilizers.
- 8) In which year did toxicity of pesticide to humans occurred at Bhopal, India?

