

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: ELE-SSAC 364	Title	: Agrochemicals		
Credits	: 3 (2+1)				
Day & Date	: Friday, 14.07.2023	Time	: 14:00 to 17:00 hrs.	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 diagram wherever necessary.

SECTION 'A'

- Q.1 Enlist the factors to be considered, while direct application of rock phosphate.
- Q.2 State the physical and chemical properties of muriate of potash.
- Q.3 What are complex fertilizers? Explain in short the main characteristics of complex fertilizer.
- Q.4 a) What are the fertilizer sources for supplying secondary nutrients and micronutrients?
b) State the reasons of increasing need of micronutrient fertilization.
- Q.5 a) State the mechanisms of pesticide resistance.
b) Explain in short the mode of action of sulphur fungicide.
- Q.6 a) Classify nitrogenous fertilizers with examples.
b) State the management considerations for nitrogen fertilizer.
- Q.7 Classify insecticides based on their chemical nature with example of each class.
- Q.8 Classify fungicides on the basis of chemical nature and give example of each class.
- Q.9 Explain in short the general mode of action of herbicides.
- Q.10 Explain the biochemical processes affected by the action of herbicide.

SECTION 'B'

- Q.11 Do as directed:
- 1) State the chemical formula of Urea.
 - 2) Define: Straight fertilizer.
 - 3) Give the action of acaricide.
 - 4) Give an example of chelate form of nutrient.
 - 5) State the example of liquid N fertilizer.
 - 6) Zinc content in zinc sulphate heptahydrate is _____ %.
 - 7) Give one example of systemic herbicide.
 - 8) In which year Fertilizer Control Act was first implemented in India?

(P.T.O.)

Q.12 Match the pairs:

‘A’

- 1) DAP
- 2) MOP
- 3) Pyrethrum
- 4) Phosphorus
- 5) Neem
- 6) Growth Inhibitor
- 7) Amide
- 8) Fungicide

‘B’

- a) VAM
- b) Bordeaux mixture
- c) Azadirachtin
- d) 18 : 46 : 0
- e) Chrysanthemum
- f) Urea
- g) Absciscic acid
- h) KCl

