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B.Sc.(Agriculture) (2014 & Onwards) (Sem.-5) CHEMISTRY OF AGROCHEMICALS Subject Code : BSAG-503 Paper ID : [74167]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) What do you mean by ESP? How is it calculated?
- b) Discuss the importance of buffer action in Agriculture.
- c) What is Bordeaux mixture? How is it beneficial in agriculture?
- d) Give the difference between absorption and adsorption. What is sodium adsorption ratio?
- e) Explain why Gypsum and calcium chloride can't be used for improvement of acid soils.
- f) What is Pryanishnikov triangle? Discuss its significance.
- g) What do you understand by sewage irrigation?
- h) How will you classify phosphatic fertilizers? Give the names and importance of two phosphatic fertilizers.
- i) Discuss the insecticidal activity of carbaryl.
- j) What are herbicides? How will you classify them? Give examples.



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SECTION-B

- 2. What are nitrogenous fertilizers? How will you classify them? Explain the action of urea and ammonium sulphate on soil.
- 3. What are organic insecticides? Classify them. Explain the synthesis and significance of any one synthetic organic insecticide of your choice.
- 4. State and explain the factors controlling soil reactions in brief details.
- 5. Discuss in details the ion exchange reactions in soil.
- 6. Discuss the structure, synthetic route and function of Tridemorph in details.

SECTION-C

- 7. a) What are botanical insecticides? Give their types with examples. Discuss the chemistry of neem in brief.
 - b) Discuss in details the structure and synthetic strategy of benthiocarb, with its significance.
- 8. a) Write a detailed note on auxins. Give significance and synthetic route of any on auxin of your choice.
 - b) Discuss in details the structure and synthetic strategy of 2, 4-D with its significance.
- 9. a) What are biofertilizers? How do biofertilizers improve crop productivity? Give examples of few biofertilizers along with their specific applications.
 - b) Write a detailed note on Cytokinins. Give significance and synthetic route of any one Cytokinin of your choice.