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# B.Sc.(Agriculture) (2014 & Onwards) (Sem.-5) CHEMISTRY OF AGROCHEMICALS

Subject Code: BSAG-503 M.Code: 74167

Time: 3 Hrs. Max. Marks: 60

## INSTRUCTIONS TO CANDIDATES:

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

### SECTION-A

### Answer briefly :

- (a) Discuss the mode of action of paraquat.
- (b) Write a note on UDP glucoronyl transferase?
- (c) What do you know about semiochemicals?
- (d) Discuss the biochemical significance of carotene.
- (e) Give one example each of antisettling agents and antifreeze.
- (f) What does EDB stand for? What is it used for?
- (g) How are essential nutrients classified? Why is there a need to classify them?
- (h) Define Extrusion Technique. What is its significance?
- Give the structure and name of the product formed by oxidation of malathion by carboxyesterases.
- What is pymetrozine? Disuss its role as agrochemical.

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#### SECTION-B

- Write down the names and characteristics of various solvents used in pesticide formulations.
- What is the difference between a systemic and non-systemic fungicide? List the advantages and limitations of systemic fungicides.
- Outline the synthesis of butachlor from diethylaniline.
- Discuss the structure, chemistry and use of tridemorph.
- Discuss the structure, synthetic route and function of captan in detail.

## SECTION-C

- (a) Name and classify five important pests of cotton. Discuss biology, damage and management practices of any one of them.
  - (b) Discuss in detail the structure and synthetic strategy of benthiocarb, with its significance.
- (a) Write a detailed note on cytokinins. Give significance and synthetic route of any one cytokinin of your choice.
  - (b) Discuss in detail the structure and synthetic strategy of glyphosate with its significance.
- (a) Discuss the phase 1 reaction of parathion, chlorpyrifos, forate and quinalphos.
  - (b) Describe in detail about pyrethrum. Give its significance and synthetic strategy.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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