

6. Discuss the following type of formulations in brief: **(Any five)** 3×5=15

- (a) Suspension Concentrate
- (b) Granules
- (c) Aerosols
- (d) Wettable powders
- (e) Emulsified concentrates
- (f) Fumigants
- (g) Poison baits

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **2938** **I**

Unique Paper Code : 2172582402

Name of the Paper : Fundamentals of
Agrochemistry - DSC

Name of the Course : **B.Sc.(Pro.)**
AGROCHEMICAL AND
PEST MANAGEMENT

Semester : IV

Time : 2 Hours **Maximum Marks : 60**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
 - (b) Attempt any **FOUR** questions out of **SIX**. All parts of a question should be attempted together.
 - (c) Each question carries **15** marks.
1. (a) Explain herbicides with suitable examples. 3
- (b) Write a short note on fungicides. 3

- (c) What are chemosterilants? Explain their role in pest control. 3
- (d) Write a short note on molluscicides. 3
- (e) Write a brief account of plant growth regulators as pesticides. 3
2. (a) Discuss the structure, mode of action and uses of the following : **(Any three)**
5+5+5=15
- (b) Aromatic carbamates: Barban
- (b) Aryl alkanoic acids: 2, 4-D
- (c) Uracils: Bromacil
- (d) Dithiocarbamates : Thiram
- (e) Dinitro phenols: 2, 4-Dinitro
3. (a) What are rodenticids? Comment how aluminium phosphide acts as a rodenticide? 5
- (b) What do you mean by LD₅₀ Explain. 3
- (c) The LD₅₀ of four pesticides Dalapon, Thiram, Dicamba and Ziram are 9450 mg/kg, 700 mg/kg, 1450 mg/kg and 1300 mg/kg respectively. Arrange them in decreasing order of toxicity giving suitable explanation. 7

4. Draw the structure of **any three** of the following pesticides. Give the chemical class to which these belong and indicate the main functional group present: 5+5+5=15
- (i) Atrazine
- (ii) MCPA
- (iii) Parathion
- (iv) DDT
5. What happen when?
- (a) Contact herbicides are used as foliar spray. 3
- (b) Paraquat type herbicides are used in soil. 3
- (c) Glyphosate used in soil containing heavy metals. 3
- (d) Chlorosulfuron is used in soil with low pH. 3
- (e) Isoproturon is hydrolyzed. 3