## M. Sc. / H

## AGROCHEMICALS AND PEST MANAGEMENT

Paper XI Pesticide Formulations Quality Control and Development Protocol

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Time 3 hours

Maximum Marks 38

(Write your Roll No. on the top of immediately on receipt of this question paper). Attempt five questions in all, including Question no. 1 which is compalsory.

## 1. Attempt any ten:

- (1) Particle size of dust formulations is more than WP. Why? Give reasons
- (ii) Give two examples of commonly used wetting and dispersing agents used in SC formulations
- (iii) Define wettability What is its importance in pesticide formulations?
- (w) Why acetone being a good solvent for dissolving pesticide cannot be used as a solvent in pesticide formulation?
- (v) Why phorate cannot be granulated as WP?
- (vi) How the rate of release of a.i. can be controlled in CS formulations?
- (vii) Chlorpy riphos is generally formulated as EC and not EW. Why?
- (viii) What is cloud point? Mention its importance.
- (ix) Granular formulations are considered as much safer formulations than EC and dust. Give two reasons.
- (v) Define flash point. How much of this temperature is required for pesticide formulations?
- (vi) What are adjuvants? Give one example of antisettling agent and antifreeze.
- 2 (a) What are the quality control parameters for WDG formulations?3
- (b) Describe briefly the preparations of WDG formulations and their advantages and disadvantages.

3 (a) What do you mean by SC formulations? Describe their method of preparation?  (b) What are the advantages of SC formulations over FC and WP formulations?							
				10FM	uiation		3
				4 (a)	De	scribe interfacial polymerization?	3
(b)	(b) Why controlled release formulations are called enviornment:						
user	friendly	pesticide formulations?	2				
(€)	Me	ntion their advantages over conventional formulations.	2				
5 (a)	Wi	nat is the function of registration committee?	3				
(b)		scribe briefly the composition of allied data required for					
٠,		of pesticides.	4				
6	Gr	ve differences between the following.	7				
	Attempt any three.						
	(1)	Carriers and Diluents					
	(ii)	Flowables and dry flowables.					
	(iii)	Granules and wettable granules.					
	(1V)	Suspensions and Emulsions.					