This que	stion paper cont	tains 4 printed pages]			. 4.
			Roll No.			
S. No. of	Question Paper	: 6813	-			
Unique I	Paper Code	: 217377		·	D	
Name of	the Paper	: Herbicides—Pap	er-12			
Name of	the Course	: B.Sc. (Prog.)				
Semester.		: III				
Duration	: 3 Hours			·	Maximun	n Marks: 75
(W.	rite your Roll	No. on the top imme	ediately on recei _l	pt of this	question j	paper.)
		Attempt an	y five questions.			
		All questions	carry equal mark	S.		·
1. Ans	swer the followir	ng:				· .
(a)	Define Algaec	ide with suitable exar	mple.			
(<i>b</i>)	Define non-selective herbicide with suitable example.					
(c)	Define the importance of pre-emergence herbicide with example.					
(<i>d</i>)	Discuss contac	et herbicide with exam	mples.			
(e)	Effects of herb	picide application in s	soil.			

	(6)	Contact heroscides are used as foliar spray.			
	(d)	Paraquat is incorporated with triallate during spray.			
	(e)	Glyphosate used in soil containing heavy metals.			
3.	Dep	epict the structural formula for the following:			
	(a)	2, 4-D and Asulam			
	(<i>b</i>)	Dicamba and MCPA			
	(c)	Barban and Dalapon			
	(d)	Simazine and Bromocil			
٠	(e)	Chlorosulfuron and Monuron			
4.	Clas	sify the following according to the chemical classification:			
	(a)	Isoproturon and Paraquat			
	(b)	Simazine and 2, 4-D			
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Water soluble herbicide is used in rainy season.

Paraquat type herbicides are used in soil.

What happen when ?

2.

(a)

(*b*)

5.

(c)

- Explain the rapid deactivation of Glyphosate in soil. (e)
- Discuss the preparation of herbicide using, 2-chlorobenzene sulphonyl isocyanate, with 6. (*a*) chemical equations.

Chlorosulfuron is not recommended to use in wet and light soil. Explain.

- What happens when Dalapon absorbs water? Explain. (b)
- Discuss the herbicidal action of Simazine. (c)
- What happens when chlorosulfuron is applied in acidic soil? (d)
- Write chemical structure for the hydrolyzed product of Isoproturon. (e)

- 7. (a) Discuss the preparation of herbicide using, cyanogen chloride and ethyl amine, give chemical equation.
 - (b) Name with structural formula of two compounds used both as selective and non-selective Herbicide.
 - (c) Write chemical structure for the hydrolyzed product of Monuron.
 - (d) Discuss demethylation with suitable example.
 - (e) Which is more selective: MCPA-Na or 2, 4-D-Na? Give reason.