Roll	No.	

Total No. of Questions: 9] [Total No. of Printed Pages: 4

(2034)

UG (CBCS) IIIrd Year Annual Examination 2995

B.Sc. CHEMISTRY

(Pesticide Chemistry and Pharmaceutical Chemistry) (SEC-4)

Paper: CHEM 308 TH

Time: 3 Hours]

[Maximum Marks: 70

Note: - Attempt five questions in all, selecting one question from each Section. Q. No. 9 of Section-E is compulsory.

Section-A

- Classify pesticides on the basis of origin and 1. (a) source.
 - What are the benefits of using natural pesticides? 10,5 (b)
- 2. (a) Discuss the adverse effects of pesticides on the environment.
 - (b) Explain the need of pesticides use in agriculture. 10,5

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(1)

Turn Over

Section-B

- 3. (a) Give method to synthesis malathion. What are its uses?
 - (b) Write notes on the following:
 - (i) Gammexane
 - (ii) Chloranil

9.6

- 4. (a) What are Anilides? Discuss synthesis of butachlor.
 - (b) Give a method for the synthesis of carbofuran.

 What are its uses?

 8,7

Section-C

- 5. Write notes on the following:
 - (i) Diazepam
 - (ii) Dapsone
 - (iii) Trimethoprim

5,5,5

- 6. (a) What are Antibiotics? Give synthesis of Chloramphenicol.
 - (b) How retrosynthetic approach can save time and money in drug synthesis? 9,6

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(2)

Section-D

7.		uss the industrial production of the following	
	using	g fermentation:	
	(i)	Ctiric acid	
	(ii)	Vitamin B-12	8,7
8.	(a)	What is the general structure of penicillin?	
		How will you prepare penicillin commercially?	
	(b)	Discuss industrial production of Lysine (amino	
		acid) using micro-organisms.	8,7
		Section-E	
9.	(A)	Fill in the blanks:	
		(i) The slow and gradual process of	
		accumulation of pesticides in the food chain	
		is termed as	
		(ii) The BHC (Benzene Hexachloride) is	
		synthesized from chlorination of	
		in the presence of sunlight.	
		(iii) Glyceryl trinitrite (GTN) is used for	
		(iv) Glucose is converted to ethanol in the	
		presence of	
_	H_2	0 95 (3) Turn	Over

C	H–2	95	(4)			
					1×10=10	
			(c) Fats	(d) Vitamins		
			(a) Carbohydrates	(b) Proteins		
		(iii)	Wine is produced by the	efermentation	of:	
			(d) DNA polymerase			
			(c) Dihydrofolate reduct	ase		
			(b) COX-2			
			(a) GABA receptor			
		(ii)	Phenobarbital acts by ir	nhibition of:		
			(c) Malathion	(d) Lindane		
			(a) BHC	(b) DDT		
			haching ?			
		(1)	found dangerous for bit			
	(0)	(i)	Which of the following	ng pesticides	was	
	(C)	Choo	ose the correct answer :			
		(111)	Sulfacetamide acts by 2 inhibition.	cyclooxygen	1430-	
		(ii)				
		(i)	Malathion is a quinone DDT is used as herbici		ture	
	(B)					
	(B)	State whether True or False:				