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

CH-295

Turn Over

Section-B

3.	(a)	Give method to synthesis malathion. What are its uses?
921	(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?
		Section-C
5.	Writ	te 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?

Section-D

	usi	ng 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	
		(iii) Glyceryl trinitrite (GTN) is used for	
,		(iv) Glucose is converted to ethanol in the presence of	
Cr	1. 0		

Turn Over

(i)	Malathion is a quinone insecticide. DDT is used as herbicides in agricul Sulfacetamide acts by cyclooxyger 2 inhibition.	
Cho	ose the correct answer:	
(i)	Which of the following pesticides found dangerous for bird's egg and haching?	was their
	(a) BHC (b) DDT	
, X	(c) Malathion (d) Lindane	
(ii)	Phenobarbital acts by inhibition of: (a) GABA receptor	
	(b) COX-2	
	(c) Dihydrofolate reductase	
	(d) DNA polymerase	
(iii)	Wine is produced by the fermentation	of:
	(a) Carbohydrates (b) Proteins	•
alia (Alia) Alia (Alia) Alia (Alia) Alia (Alia)	(c) Fats (d) Vitamins	1×10=10
	(i) (iii) (iii) (ii)	 (i) Malathion is a quinone insecticide. (ii) DDT is used as herbicides in agricul (iii) Sulfacetamide acts by cyclooxyger 2 inhibition. Choose the correct answer: (i) Which of the following pesticides found dangerous for bird's egg and haching? (a) BHC (b) DDT (c) Malathion (d) Lindane (ii) Phenobarbital acts by inhibition of: (a) GABA receptor (b) COX-2 (c) Dihydrofolate reductase (d) DNA polymerase (iii) Wine is produced by the fermentation (a) Carbohydrates (b) Proteins