[This question paper contains 2 printed pages]
Your Roll No
7153 J
M.Sc./II
AGROCHEMICALS AND PEST MANAGEMENT
PAPER XIII-Toxicology of Pesticides
Time 3 Hours Maximum Marks 38
(Write your Roll No on the top immediately on receipt of this question paper)
Attempt five questions in all, including
Question No 7 which is compulsory
1. Give an account of the various components and active
sites of Cytochrome P-450 Explain the catalytic cycle
involved
2 Write notes on
(a) UDP-Glucuronyl transferase

Describe the Phase I reactions of the following

(b) Transacetylases

Parathion

insecticides

(b) Schradan

(d) Phorate

(c) Chlorpyrifos

(e) Quinalphos

(a)

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4	Des	scribe briefly extrasomal reactions of pesticide
	met	abolism in animals with suitable example of organo-
	pho	sphorous compounds
5	(a)	Explain the mode of action of organochlorine
		pesticides in animals
	(b)	How the mode of action of organochlorine pesticide
		differs from organophosphorous pesticides 7
6	(a)	Explain the differences between mutagenecity,
		carcinogenecity and teratogenecity 7
	(b)	Differentiate between the ADI and NOEL 7
7	(a)	Mode of action of paraquat
	(b)	Epoxidation
	(c)	Nitroreductase
	(d)	W.P
	(e)	Mode of action of Bt
	(f)	Rodenticides

(g) LD_{50} and LC_{50}

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