## **Question Paper Code: 6445**

M.Sc. (Semester-IV) Examination, 2018

(Regular & BP/Imp.)

## **ENVIRONMENTAL SCIENCE**

[Sixth Paper]

(Environmental Toxicology-II)

[Maximum Marks: 70

Note: Attempt five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.
1. Describe briefly the following: (Any ten) [3x10=30]

(a) LD<sub>50</sub>

Time: Three Hours

- (b) Biopesticides
- (c) Biotransformation
- (d) Proto-Oncogenes
- (e) Mutagenicity
- (f) Active and passive transport
- (g) Cytochrome P450

6445/100 (1) [P.T.O.]

	(h)	Harmful effects of chemical pesticides			(iii)	Asphyxiants with example		
	(i)	Retroviruses			UNIT-III			
	(j) (k)	Tumor Suppressor Genes Arsenic toxicity		6.	What are chemical pesticides? Describe the types of pesticide induced-toxicity, their uses and harmful effects with suitable examples. [10]			
	UNIT-I			_				
2.	Briefly explain the hepatic manifestations of alcohol aft overconsumption: emphasizing on its detoxification mechanism.		ification	7.	(i)	Herbicides  Advantages of biomeeticide	[5x2 = 10]	
	mecn	anism.	[10]		(ii)	Advantages of biopesticide		
3.	Write notes on <b>any two</b> of the following : [5x2 = 10]		x2 = 10]		(iii)	Rodenticides		
	(i) Stages of liver injury			UNIT-IV				
	(ii)	(ii) Neurodegenerative disorder with example		8.		Give an account of cadmium toxicity in plants and		
	(iii) Competitive ELISA  UNIT-II			animals, its sources as well as their control measures. [10]				
				•	<b>VA7</b> .*1 .			
4.	What is Cardiotoxicity? Add a note on toxicant induced-		nduced-	9.	vvrite	e notes on <b>any two</b> of the following:	[5x2 = 10]	
	cardiac toxicity. [10]		[10]		(i)	Mercury		
<b>5</b> .	Write notes on <b>any two</b> of the following : [5x2 = 10]			(ii)	Chromium			
	(i)	Type II hypersensitivity			(iii)	Lead		
	(ii)	Action potential				x		
5445/100		(2)		6445/	100	(3)		