Total No. of Questions: 6

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Enrollment No
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Q.1

# Faculty of Science End Sem Examination Dec-2023

#### FS3CO13 Forensic Toxicology

Programme: B.Sc. (Hons.) Branch/Specialisation: Forensic

Science

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

i.	The father of forensic toxicology is:				
	(a) Karl Landsteiner	(b) Edmond Locard			
	(c) Mathieu J.B. Orfila	(d) Calvin Goddard			
ii.	A toxic substance produced by biological system is specially				
	referred to as a	<u>.</u> .			
	(a) Toxicant (b) Toxin	(c) Xenobiotic (d) Poison			
iii.	'Stass-Otto' process is used for:				
	(a) Extraction of poisons	(b) Extraction of DNA			
	(c) Extraction of antigens	(d) Isolation of compliments			
iv.	Which of the following is not a volatile poison?				
	(a) Methanol (b) Phenol	(c) Nicotine (d) Ethanol			
v.	Which one can cause blindness?				
	(a) Ethyl Alcohol	(b) Methyl Alcohol			
	(c) Glycol	(d) Phenol			
vi.	Poison with garlic smell is				
	(a) Carbolic acid	(b) Citric acid			
	(c) Phosphorous	(d) Mercuric chloride			
vii.	The colour of the blood is cherry red due to:				
	(a) Hydrogen sulphide				
	(b) Carbon tetrachloride				
	(c) Carbon monoxide				
	(d) Methane				

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	viii.	Vitriolage means  (a) Using vitriol for suicide  (b) Using vitriol for murder		1			
		(c) Vitriol-throwing					
		` '	consuming HoSO				
	ix.	(d) Perforation of stomach after consuming H <sub>2</sub> SO <sub>4</sub> The Spinal poison is					
	17.	• •	) HCN	1			
			Yellow oleander				
	х.	Botulism is a form of	) Tellow oleander	1			
	11.	(a) Volatile poison (b	) Food poisoning	_			
		-	) Metallic poisoning				
		(c) I esticide (d	, weetine poisoning				
Q.2	i.	Define Poison.		2			
<b>V</b>	ii.	Mention 3 important roles of a f	orensic toxicologist.	3			
	iii.	Write about factors influencing	<b>U</b>	5			
OR	iv.	Write a brief note on types of poisons.					
Q.3	i.	Define Pharmacokinetics.		2			
Q.3	ii.	Write a brief note on the collection and preservation of viscera.					
OR	iii.	Briefly explain metallic poisons with important types.					
Q.4	i.	What are barbiturates?					
	ii.	Write a brief note on the medicolegal aspects of death due to 7 pesticides.					
OR	iii.	Write a brief note on arsenic or mercury poisoning with an 7					
appropriate case study.							
Q.5	i.	What are alkaloids? Give examp	oles of it.	4			
	ii.	Write a short note on drugs of abuse in sports.					
OR	iii.	Write a brief note on LSD.					
Q.6		Attempt any two:					
	i.	Explain any two vegetable poison.					
	ii.	Write a short note on food poisoning.					
	iii.	Write a brief note on poisonous fungi.					

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## **Marking Scheme**

### Forensic Toxicology (T) - FS3CO13 (T)

Forensic Toxicology (T) - FS3CO13 (T)					111.	Preservation	4 Marks	· ·	
					OR	iv.	Metallic poison	4 Marks	8
Q.1	i)	Answer: - c) Mathieu J.B. Orfila		1			Important poisons	4 Marks	
	ii)	Answer: - b) toxin		1					
	iii)	Answer: (a) Extraction of poisons		1	Q.4	i.	Definition	2 Marks	3
	,	i men (u) Entitudien er persene		_			Examples 1 Mark		
	iv)	Answer: c) Nicotine		1		ii.	Pesticides	3 Marks	7
	**)	Angyyan h) Mathyl Alachal		1			Medicolegal aspects= 4 marks		
	v)	Answer: b) Methyl Alcohol		1	OR	iii.	Arsenic/mercury poisoning	4 Marks	7
	vi)	Answer: c) Phosphorous		1			Case study	3 Marks	
	vii)	Answer: c) Carbon monoxide		1	Q.5	i.	Alkaloids	2 Marks	4
	•••				_		Examples	2 Marks	
	viii)	Answer: c) vitriol-throwing		1		ii.	Drugs of abuse	3 Marks	6
	ix)	Answer: a) Strychnine		1			Abuse in sports	3 Marks	
	,				OR	iii.	Definition	2 Marks	6
	x)	Answer: b) Food poisoning		1			Symptoms, lethal dose and other features	4 Marks	
					Q.6				
Q.2	i.	Proper definition	2 marks	2					_
		•				i.	Vegetable poison	3 Marks	5
	ii.	One mark for each role		3			Diagram	2 Marks	_
		Role 1	1 Mark			ii.	Food poisoning definition	2 Marks	5
		Role 2	1 Mark				Causing factors and sources	3 Marks	
		Role 3	1 Mark			iii.	Definition of poisoning fungi	2 Marks	5
	iii.	Action of poison	2 Marks	5			Appropriate examples and other features	3 Marks	
		Factors	3 Marks						
OR	iv.	Poison	1 Mark	5			*****		
		Types	4 marks						
Q.3	i.	Proper definition	2 Marks	2					

ii.

iii.

Collection

4 Marks

8