

JAMIA HAMDARD
Department of Medical Elementology & Toxicology
School of Chemical and Life Sciences

Course Name: MSc Toxicology, Semester-I End term Examination (2022-23)

Paper Name: Methods of Toxicology

Paper Code: MTX-302

Time: 3h

Maximum Marks: 60

(Note: This paper has 3 section A, B and C, Attempt all the three sections. Section A: Answer all the questions; Section B: Answer any 4 and Section C attempt any two questions)

Abbreviations Used

CO-Course Outcome, PO-program Outcome, BTL-Bloom Taxonomy Level: BT level 1-Remember; BT level 2-Understand; BT level-3 Apply; BT level 4 Analyse; BT level 5-evaluate, BT level 6 Create

SECTION A

Very Short Type Questions (1 X20)

[20]

Q. No.	Question	BTL	CLO	PLO
1.	Write the full form of REACH.	1	2	3
2.	What is the scientific name of guinea pig?	1	1	1
3.	What is the full form of HGPRT?	1	1	2
4.	What is the full form of TCDD?	1	1	2
5.	Example of low solubility drug that suffers from poor availability is	1	2	2
6.	In rats gall bladder and tonsils are absent. (True/False)	1	3	2
7.	Bruce Ames brought forward the idea of Ames Test in the year	1	4	2
8.	Write structure of carbonium ion or Diazonium ion.	1	4	1
9.	What do you mean by hepatic bypass?	2	1	1
10.	What is the route of administration in sub-chronic toxicity?	2	3	1
11.	What is the scientific name of zebrafish?	2	2	1
12.	What is the duration of chronic toxicity evaluation?	3	2	1
13.	Name of human origin cell line used in research.	3	2	1
14.	Name of rodent origin cell line used in research.	3	2	3
15.	What is the life span of Drosophila?	1	2	3
16.	Define LD ₅₀	2	2	3
17.	Define therapeutic index.	3	5	2
18.	DakDak is a test used for	4	6	2
19.	Most potent route of administration is	1	3	2
20.	What is the scientific name of rabbit?	1	2	3

SECTION B

Short-type Questions. (Attempt any four questions) (4X5)

[20]

Q. No.	Question
1.	Rodent cancer bioassays
2.	AMES test
3.	COMET assay
4.	Routes of administration
5.	Bioavailability
6.	Cytotoxicity
7.	Oxidative Stress

SECTION C

Long-type Questions. (Attempt any two questions) (2X10)

[20]

Q. No.	Question
1.	Importance of cell culture in toxicology research
2.	<i>In vivo</i> models of toxicity testing
3.	Alternate models and its role in current scenario of research
4.	Carcinogenicity testing and its relevance to methodological paradigms

—END—