Name: **Enrolment No:**	

UPES

End Semester Examination, May 2025

Course: Global Perspectives in Toxicology **Semester: VI**

Program: Int. (B.Sc.+ M.Sc. (CR)) **Time: 03 hrs.**

Course Code: HSTX30010 **Max. Marks: 100**

Instructions: Read the question paper carefully. Attempt the questions as mentioned.

S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)	Marks	COs
Q 1	Define pharmacokinetics.	**1.5**	**CO1**
Q 2	Name two routes of drug administration.	**1.5**	**CO2**
Q 3	Write an application of animal testing in toxicology.	**1.5**	**CO2**
Q 4	Enlist symptoms of arsenic poisoning.	**1.5**	**CO2**
Q 5	Define NOAEL (No Observed Adverse Effect Level).	**1.5**	**CO1**
Q 6	Elaborate the term LOAEL (Lowest Observed Adverse Effect Level).	**1.5**	**CO1**
Q 7	Define half-life (t½) of a drug.	**1.5**	**CO1**
Q 8	Abbreviate the terms – CPCB and NGT in the context of environmental regulation.	**1.5**	**CO1**
Q 9	Give two examples of synthetic toxicants.	**1.5**	**CO2**
Q 10	Write one disease caused by air pollution.	**1.5**	**CO2**
Q 11	Enlist types of environmental pollutants.	**1.5**	**CO2**
Q 12	Give two examples of analgesic drugs.	**1.5**	**CO2**
Q 13	Write an example of a heavy metal toxicant.	**1.5**	**CO2**
Q 14	Predict the effect of neurotoxicants on human health.	**1.5**	**CO1**
Q 15	Define the term bioaccumulation.	**1.5**	**CO1**
Q 16	Write the definition of biotransformation.	**1.5**	**CO2**
Q 17	Give toxicological effect of pesticide exposure.	**1.5**	**CO1**
Q 18	Abbreviate the term WHO and ICMR.	**1.5**	**CO1**
Q 19	Mention two methods for detection of toxicity in laboratory animals.	**1.5**	**CO2**
Q 20	Write one example of a carcinogenic compound.	**1.5**	**CO2**

Section B

(4Qx5M=20 Marks)

Q 1	Draw dose response curve and explain its significance.	**3+2**	**CO2**
Q 2	Explain absorption and distribution of drug.	**2.5+2.5**	**CO3**
Q 3	Discuss biological and chemical toxicants in detail.	**2.5+2.5**	**CO2**
Q 4	Write a note about industrial toxicants.	**5**	**CO3**
Section C **(2Qx15M=30 Marks)**			
Q 1	Write the role of SDG in toxicological management.	**15**	**CO3**
Q 2	Explain in detail the causes and consequences of Bhopal gas tragedy.	**15**	**CO5**
Section D **(2Qx10M=20 Marks)**			
Q 1	Write about risk assessment framework in toxicology.	**10**	**CO5**
Q 2	Enlist toxicological assessment methods. Explain anyone of them.	**5+5**	**CO3**