

M.Sc.(FS) Semester - 3 (CBCS) Examination
Nov/Dec-2023 (NEW COURSE)
Forensic Toxicology (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
-

- Que.1(A) Answer the following question. (04)
1. Define the term toxicology and give the name of father of modern toxicology.
 2. Give the difference between drug and poison with example.
- Que.1(B) Answer any two questions out of three. (10)
1. Write a note on mechanistic and regulatory toxicology.
 2. Explain the various branches of toxicology.
 3. Explain the terms:
(i) Duration and frequency of exposure (ii) Dose response relationship.
- Que.2(A) Answer the following question. (04)
1. What are the various types of pesticides? Discuss its toxic effects.
- Que.2(B) Answer any two questions out of three. (10)
1. Write a note on any two plants poison and its toxic effects.
 2. What are volatile organic solvent? Discuss about any one organic solvent and their effect on body.
 3. What are the fatal dose, fatal period and mode of exposure of the below metallic poisons: (i) Arsenic (ii) Mercury (iii) Lead
- Que.3(A) Answer the following question. (04)
1. Write a note on Bioaccumulation of xenobiotics.
- Que.3(B) Answer any two questions out of three. (10)
1. What did you understand about exposure? Explain various exposure sites.
 2. Give the difference between active and passive transformation with example.
 3. Briefly explain different factors affecting in biotransformation.
- Que.4(A) Answer the following question. (04)
1. Explain what is the role and responsibility of forensic toxicologist.
- Que.4(B) Answer any two questions out of three. (10)
1. Briefly explain the precautions to be taken while storing and shipping of viscera samples.
 2. Briefly explain the collection, storage and packaging technique for the samples:
(i) Tissues (ii) Blood (iii) Urine.
 3. Write a note on preservatives used in visceral samples in different poisoning cases.
- Que.5(A) Answer the following question. (04)
1. What types of evidences assist in analytical Toxicology.
 2. Define the term analytical toxicology and its role.
- Que.5(B) Answer any two questions out of three. (10)
1. Briefly explain two methods of extract metal poison.
 2. What do you understand by validation of Method.
 3. Define and describe quality control and quality assurance.
