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**25-FS-24**

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION  
MAY - JUNE 2025**

**FORENSIC SCIENCE**

Paper - IV

**[Forensic Toxicology and Pharmacology]**

*[Max. Marks : 75]*

*[Time : 3:00 Hrs.]*

*[Min. Marks : 26]*

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**Note :** Candidate should write his/her Roll Number at the prescribed space on the question paper.  
Student should not write anything on question paper.  
Attempt all five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

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**Q. 1** Define Poison. Explain classification on the basis of nature and mode of action.

**OR**

Discuss the role of forensic toxicology in the investigation of fatal poisoning case, including the collection and preservation of toxicological exhibits.

**Q. 2** Write notes on the following extraction methods -

- i) Wet digestion.
- ii) Fresenius and Babo method.
- iii) Distillation method.

**OR**

Explain the ammonium sulphate method and tungstate method for extracting drugs and plant poisons from matrices, including the steps involved.

**Q. 3** What are the procedures for collecting, preserving and packing drugs / poisons at a crime scene and how do these procedures impact the identification of the substances ?

**OR**

- a) Explain the sources and toxicity of mercury.
- b) Discuss the effects of arsenic on human health.

**Q. 4** Write a note on methanol poisoning including its sources, symptoms and detection.

**P.T.O.**

**OR**

- a) Discuss the toxic effects of hydrogen sulphide.
- b) Write a note on carbon monoxide poisoning, including its symptoms.

**Q. 5** What is Pharmacokinetics and how is it applied in Forensic Science ?

**OR**

Write notes on -

- i) Opium Poisoning.
- ii) Scorpion venom.

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