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24-FS-23

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

FORENSIC SCIENCE

Paper - III

[Forensic Chemistry and Explosives]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

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 five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Give an account on Analysis of Beverages. (15 Marks)

OR

Discuss the importance of Forensic Chemistry and types of cases require chemical analysis.

Q. 2 What do you understand by Drug abuse in Sports ? Discuss common prohibited substances. (15 Marks)

OR

What are the key objectives and provisions of Narcotic Drugs and Psychotropic Substance (NDPS) Act in India.

Q. 3 Discuss the following in detail - (15 Marks)

- i) Distillation and Fractionation.
- ii) Trap Cases.

OR

Describe in detail "Metallurgical Analysis" with reference to cheating cases.

Q. 4 Elaborate the analysis of Accelerant with reference to Fire and Arson Cases. (15 Marks)

OR

Write short note on -

- i) Determination of cause and origin of fire.
- ii) Chemistry of Fire.

P.T.O.

Q. 5 Discuss chemical and instrumental techniques for examination of explosion residues. (15 Marks)

OR

Write short note on (**any three**) -

- i) Characteristics of Explosive.
- ii) Effect of blast wave on structures.
- iii) Explosive Act, 1884.
- iv) Post Blast Residue Collection.

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