

Roll No.

Total Pages : 2

CDME/M-24

4708

**FORENSIC CHEMISTRY AND
TOXICOLOGY**

Paper–M-FSC–201

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short answers on the following : $8 \times 2 = 16$
- (i) Microcrystal test. (ii) Designer drugs.
(iii) Flash point. (iv) ED50
(v) Universal antidotes. (vi) Narcotic drugs.
(vii) Tracer dyes (viii) Nux Vomica

UNIT-I

2. Explain the following: $2 \times 8 = 16$
- (a) Breath alcohol analyser.
(b) Role of GC in detection of ethanol.
3. Write notes on the following:
- (a) NDPS Act. 6
(b) Drug of abuse. 10

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UNIT-II

4. What is BIS? Describe in detail the parameters to check the quality of petroleum products. 16
5. Give a detailed account on the investigation of Arson cases. Also write identification methods for fire residue. 16

UNIT-III

6. Explain the following:
- (a) Legal aspects of poison analysis. 6
(b) Types of antidotes with suitable examples. 10
7. Write notes on the following : $2 \times 8 = 16$
- (a) General signs and symptoms of poison.
(b) Solvent extraction methods and their applications in drug analysis.

UNIT-IV

8. Write a detailed note on the following : $2 \times 8 = 16$
- (a) Irrespirable gases.
(b) Aconite poisoning.
9. Explain the following : $2 \times 8 = 16$
- (a) Aluminium Phosphide Poisoning.
(b) Detection methods for arsenic in viscera.

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2