

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 |

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. | |