

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

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

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que.1(A) Answer the following. (04)
1. What is audit? Discuss it with detail.
- Que.1(B) Answer any two questions out of three. (10)
1. What is method validation? Explain various steps of method validation.
2. Write a note on the calibration of instrument.
3. Explain the significance of forensic lab accreditation with an example.
- Que.2(A) Answer the following. (04)
1. What are controlled substances? Discuss with examples.
- Que.2(B) Answer any two questions out of three. (10)
1. What is microcrystalline technique? Explain its significance.
2. Describe colour test for cannabis and barbiturates.
3. Write the chain of custody for narcotic drugs with suitable example.
- Que.3(A) Answer the following. (04)
1. What is IED? Explain working mechanism of IED.
- Que.3(B) Answer any two questions out of three. (10)
1. Explain the characteristics of high explosive.
2. Discuss chemical analysis of explosive.
3. Write a note on oxygen balance and explosive power.
- Que.4(A) Answer the following. (04)
1. What is PIONA? Explain with detail.
- Que.4(B) Answer any two questions out of three. (10)
1. Explain any one technique for the analysis of ignitable liquids.
2. Write a note on fire investigation and modern fire analysis.
3. Explain conduction, convection, and radiation with suitable example.
- Que.5(A) Answer the following. (04)
1. Discuss various types of food adulteration with examples.
- Que.5(B) Answer any two questions out of three. (10)
1. What is iodine value? Discuss its significance.
2. Discuss any three methods for detection of oil adulteration.
3. Write a note on hydroxyl value.
