

**M.Sc.(FS) Semester - 1 (CBCS) Examination****Nov/Dec - 2022 [NEW COURSE]****Forensic Chemistry and toxicology (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

**Q.1 (a)** What is Forensic Chemistry? Mention the types of cases received in the same division (04)

**Q.1 (b)** Answer any two questions out of three. (10)

- (1) Write a note on any one qualitative technique used in Forensic Chemistry.
- (2) What is the difference between internal standard method and standard addition method?
- (3) Give a brief note on any one case study solved with the knowledge of chemistry.

**Q.2 (a)** What are country made liquors? Give examples (04)

**Q.2 (b)** Answer any two question out of three. (10)

- (1) Give the preliminary and confirmatory tests for methanol
- (2) Write a note on classification of beverages
- (3) What are the common adulterants found in dairy product? Mention the detection techniques of any one adulterant.

**Q.3 (a)** Write a note on explosive evidences received at the crime scene. (04)

**Q.3 (b)** Answer any two question out of three. (10)

- (1) Differentiate between density and viscosity.
- (2) Explain fire triangle and Flash point.
- (3) What is the difference between fire and arson?

**Q.4 (a)** Write a note on depressants with examples. (04)

**Q.4 (b)** Answer any two question out of three. (10)

- (1) Give a brief note on classification of drugs based on action on CNS.
- (2) Describe the effect of hallucinogens on CNS with suitable examples.
- (3) What do you understand by dependence of drugs? Explain briefly.

**Q.5 (a)** Which antidote is given for carbon-monoxide poisoning. Explain its mechanism of action. (04)

**Q.5 (b)** Answer any two questions out of three. (10)

- (1) Write a note on toxicity and its types.
- (2) Give a note on Poison information Centre.
- (3) What are the various branches of toxicology, write a note on them.

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