

B.Sc.(FS) Semester - 5 (Remedial) (CBCS) Examination
Feb/Mar. -2021 (OLD COURSE)
FORENSIC CHEMISTRY(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q1 (A) Answer in short: (04)

1. Define forensic chemistry.
2. Define forensic chemist.
3. Give examples of separation and identification techniques.
4. What are the duties of a forensic chemist?

Q1 (B) Answer any one in brief: (03)

1. What is the scope/importance of forensic chemistry division?
2. Enlist the evidences encountered in cases related to fire and arson.

Q1 (C) Answer any one in detail: (07)

1. Write a note on types of cases solved in chemistry division and instruments used for its analysis.
2. Write a note on the detail procedure of examination of evidences followed in forensic chemistry division.

Q2 (A) Answer in short: (04)

1. Give some examples of Narcotic Drugs?
2. What are the active components of Opium?
3. From which plant cannabis is obtained ?
4. Which chemical in cannabis majorly affects the CNS?

Q2 (B) Answer any one in short: (03)

1. Name the countries in Golden Triangle and Golden Crescent.
2. Explain the process of making Opium.

Q2 (C) Answer any one in detail: (07)

1. Write a note on the classification of NDPS drugs in detail.
2. Enlist the effects of drugs abuse in human body.

Q3 (A) Answer in short: (04)

1. Who is the father of forensic toxicology?
2. Define venom and poison.
3. Define Forensic Toxicology.
4. Enlist the four groups in which poisons are generally divided.

Q3 (B) Answer any one in brief : (03)

1. Enlist the ingredients of universal antidote and their useful properties.
2. Write a brief note on preservation of toxicological evidence.

Q3 (C) Answer any one in detail: (07)

1. Define poison and explain the classification of Poison.
2. Define toxicology, LD₅₀, toxicity, dose response, toxin, toxic and poison.

Q4 (A) Answer in short: (04)

1. Explain Fire Triangle.
2. What are the modes of heat transfer?
3. What is the ideal smoke point of kerosene?
4. What are the dyes used in petrol?

Q4 (B) Answer any one in brief: (03)

1. Enlist and write a line on each type of arsonists.
2. Write a note on the various fractions of petroleum products.

Q4 (C) Answer any one in detail: (07)

1. Write a note on the chemistry of fire. Also list out the instruments used to analyse the evidences found in a fire crime scene.
2. Give the full forms of ATF, FBP, IBP, ASTM, RON, CCI and EC Act.

Q5 (A) Answer in short: (04)

1. From what materials is country made liquor usually produced?
2. Define Adulteration.
3. What is used for adulteration of ghee?
4. What are the evidences found in Bribe trap cases?

Q5 (B) Answer any one in brief: (03)

1. Explain iodoform test for ethanol.
2. Mention adulterants used in milk with their detection tests (at least three).

Q5 (C) Answer any one in detail: (07)

1. Write the tests for analysis of phenolphthalein used in Bribe trap case.
2. Write a note on Alcoholic Beverages and its effect in human body.
