

B.Sc.(FS) Semester - 5 (CBCS) Examination
Oct/Nov - 2024 (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 question very shortly. (04)
1. Explain section 45 of IEA.
 2. What is range of X- ray?
 3. AES means _____.
 4. What is Aqua Regia Solution?
- Que.1(B) Answer the following question in brief. (Any one) (03)
1. Give the legal aspects of Forensic Chemistry?
 2. Define UV spectroscopy with diagram?
- Que.1(C) Answer the following question in detail. (Any one) (07)
1. Write a note on Examination of Chemical Exhibits in chemistry division?
 2. Write a note on HPLC?
- Que.2(A) Answer the following question very shortly. (04)
1. Somniferum means _____.
 2. How many chemicals generally seen in Cannabis Plant?
 3. Common name of barbiturates _____.
 4. When NDPS acts has been amended?
- Que.2(B) Answer the following question in brief. (Any one) (03)
1. Write a short note on Opium.
 2. Describe different phase of Drug Metabolism.
- Que.2(C) Answer the following question in detail. (Any one) (07)
1. Write a note on Clandestine Laboratory?
 2. Describe: Barbiturates.
- Que.3(A) Answer the following question very shortly. (04)
1. What is Selective Toxicity?
 2. What is Fulminate Poisoning?
 3. What is Threshold Dose?
 4. Give the classification of Toxic Agent.
- Que.3(B) Answer the following question in brief. (Any one) (03)
1. What is Forensic Toxicology? Mention the sample collection and preservation technique.
 2. Write a short note on Distillation Process.
- Que.3(C) Answer the following question in detail. (Any one) (07)
1. Write a note on Digestion Technique used for the Extraction of Poison?
 2. Classification of Poison on the basis of their mode of Action and Chemical Properties?

- Que.4(A) Answer the following question very shortly. (04)
1. What is Incendiary Device?
 2. SEM means _____.
 3. Diesel contains _____ Hydrocarbons.
 4. What is Smoke Point?
- Que.4(B) Answer the following question in brief. (Any one) (03)
1. Define the Chemistry of Fire?
 2. Which evidences that should collect in Arson Cases?
- Que.4(C) Answer the following question in detail. (Any one) (07)
1. Give different types of Cases related to Arson.
 2. Which parameters can be used to detect the Adulteration in Petrol?
- Que.5(A) Answer the following question very shortly. (04)
1. What are Adulterants?
 2. Which types of adulterants adds in Jaggery?
 3. Name the two Enzymes that take part in Alcohol Metabolism?
 4. Phenolphthalein breakdown into _____ in Alkali Medium.
- Que.5(B) Answer the following question in brief. (Any one) (03)
1. How Detoxification is done by body in case of Alcohol?
 2. Give the physical properties for Ethanol and Methanol?
- Que.5(C) Answer the following question in detail. (Any one) (07)
1. Describe the bribe trap cases and give the chemical analysis method for Phenolphthalein?
 2. Give the Chemical analysis for both Ethyl Alcohol and Methyl Alcohol?
