

B.Sc.(FS) Semester - 5 (CBCS) Examination
Oct/Nov - 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 question very shortly. (04)
1. The great philosopher Socrates was sentenced to death by drinking _____ Poison.
 2. Define Forensic Chemistry?
 3. Explain Section - 293 of CrPC ?
 4. The column of GC is generally made up of _____ .
- Que.1(B) Answer the following question in brief. (any one) (03)
1. Give the legal aspects of Forensic Chemistry?
 2. Define NMR 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 Gas Chromatography ?
- Que.2(A) Answer the following question very shortly. (04)
1. What is the most potent form of cannabis resin?
 2. Give an example of Non-Addictive Drug?
 3. _____ is the largest abuser of Mandrax drug in the world.
 4. Cocaine is which type of drug?
- Que.2(B) Answer the following question in brief. (any one) (03)
1. Write the process of extraction of cocaine?
 2. Give the classification of Barbiturates?
- Que.2(C) Answer the following question in detail. (any one) (07)
1. Write a short note on cannabis as Narcotic Drugs ?
 2. Give the Pathways of Drug Metabolism through various phases ?
- Que.3(A) Answer the following question very shortly. (04)
1. What is the difference between Toxic and Toxin?
 2. Write the Different Route of Administration of drugs ?
 3. Which types of preservatives add in blood, when it comes of alcohol analysis?
 4. What is Acute Poisoning?
- Que.3(B) Answer the following question in brief. (any one) (03)
1. Classification of Poison on the basis of their motive or nature of use.
 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. Complete the reaction: $\text{CH}_4 + 2\text{O}_2 \longrightarrow$ _____.
 2. What is ATF?
 3. In petroleum product % of nitrogen is _____.
 4. What is Char pattern, give its types?

- Que.4(B) Answer the following question in brief. (any one) (03)
1. Define Flash point and Smoke point in relation to kerosene?
 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 Kerosene ?
- Que.5(A) Answer the following question very shortly. (04)
1. Full form of FSSAI & BIS.
 2. What is the effect of phenolphthalein on body?
 3. Name the two Enzymes that take part in alcohol Metabolism?
 4. Give the test for detection of Starch in Milk?
- 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?
