

B.Sc.(FS) Semester - 5 (Remedial) (CBCS) Examination
March/April-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) The great philosopher _____ was sentenced to death by drinking hemlock Poison.
 - (2) Define Forensic Chemistry?
 - (3) Explain Section -45 of IEA?
 - (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) Cannabis is also known as _____.
 - (2) Give an example of Non-Addictive Drug?
 - (3) _____ is the largest abuser of Mandrax drug in the world.
 - (4) Example of semi synthetic 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 Toxic?
 - (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: $2C + O_2 \longrightarrow$
 - (2) What is CNG?
 - (3) In petroleum product % of metal 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) BIS was established in _____.
 - (2) What is the effect of phenolphthalein on body?
 - (3) % of alcohol in beer is _____.
 - (4) Give the test for detection of detergent 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?
