

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**February/March. -2020****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 in short: (04)

1. Define forensic chemistry.
2. What are the types of presumptive tests?
3. Which types of instruments are used for separation and identification?
4. Define forensic chemist.

Que-1 (B) Answer any one in brief: (03)

1. What is the scope of forensic chemistry?
2. Enlist the evidences encountered in cases related to forensic chemistry.

Que-1 (C) Answer any one in detail: (07)

1. Write a note on analysis for chemical exhibits.
2. Write a note on types of cases solved by forensic chemistry division.

Que-2 (A) Answer in short: (04)

1. What is meant by drug of abuse?
2. What are psychotropic drugs?
3. From which plant is opium obtained?
4. Which chemical in cannabis majorly affects the CNS?

Que-2 (B) Answer any one in short: (03)

1. Name the countries in Golden Triangle and Golden Crescent.
2. Explain the extraction process of Cocaine.

Que-2 (C) Answer any one in detail: (07)

1. Write a note on barbiturates.
2. Enlist the effects of overdose of LSD and medical uses of the same.

Que-3 (A) Answer in short: (04)

1. Who is the father of forensic toxicology?
2. Define forensic toxicology.
3. Give examples of at least two plant poisons.
4. Enlist the four groups in which poisons are generally divided.

- Que-3 (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.
- Que-3 (C) Answer any one in detail: (07)**
1. Explain the ADME process of poison in human body.
 2. Write a detailed note on analysis of poisons.
- Que-4 (A) Answer in short. (04)**
1. Define arson.
 2. What does RON stand for?
 3. What is the ideal smoke point of kerosene?
 4. Who are pyromaniacs?
- Que-4 (B) Answer any one in brief: (03)**
1. Enlist and write a line on each type of arsonists.
 2. Write a note on TLC requirements for petrol samples.
- Que-4 (C) Answer any one in detail: (07)**
1. Explain the process of arson crime scene management.
 2. Write a note on properties of petrol and parameters for GC.
- Que-5 (A) Answer in short: (04)**
1. From what materials is country made liquor usually produced?
 2. What is used for adulteration of chili powder?
 3. What is the effect of consumption of methyl alcohol?
 4. What is added to the powder of phenolphthalein?
- Que-5 (B) Answer any one in brief: (03)**
1. Explain iodoform test for ethyl alcohol.
 2. Write the tests for detection of starch in ghee.
- Que-5 (C) Answer any one in detail: (07)**
1. Write the tests for analysis of phenolphthalein.
 2. Write the tests for analysis of adulteration in milk.
