

B.Sc.(FS) Semester - 5 (CBCS) Examination**Oct/Nov. - 2018****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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Q-1 Give the answer of following questions. (14)

- (A) Answer the following question very shortly (any four) (04)
- (1) Full form of BIS.
 - (2) Suicidal Toxicology is a sub-discipline of Toxicology. Is it true or false?
 - (3) _____ is used as fluxing agent in manufacture of cement.
 - (4) Give the example of cerebral poison.
 - (5) Give the full name of CNG.
- (B) Shortly answer any one question (03)
- (1) Scopes of forensic chemistry
 - (2) List out the name of instrument used in forensic chemistry lab.
- (C) Answer any one question in detail (07)
- (1) List out the types of cases and exhibits which come under the forensic chemistry division.
 - (2) Write a short note on separation methods used in forensic chemistry.

Q-2 Give the answer of following questions. (14)

- (A) Answer the following question very shortly (any four) (04)
- (1) Which drug does not have any withdrawal effects?
 - (2) If e take an overdoes of Opium, then what is the Temperature effect on our human body, temperature of body increase or decrease?
 - (3) Give the full form of NDPS.
 - (4) What is lethal does?
 - (5) Which drug is used as "Date Rape" drug?
- (B) Shortly answer any one question (03)
- (1) Differentiate – Narcotic Drugs & Psychotropic Substances
 - (2) Write a short note on uses of opium plant as a narcotic drug.
- (C) Answer any one question in detail (07)
- (1) Write note on extraction of paracetamol drug.
 - (2) Write the extraction of Heroin from Opium.

Q-3 Give the answer of following questions. (14)

- (A) Answer the following question very shortly (any four) (04)
- (1) Which chromatography techniques used in the analysis of poison?
 - (2) The amount dose of a chemical which produces death in 50% of a population of test animals to which it is administered by any of a variety of methods. What is it?

- (3) What is toxin?
- (4) Give the example of carbamate poison.
- (5) By which method Metallic Poisons are extracted before its analysis?
- (B) Shortly answer any one question (03)
 - (1) Give any 2-3 names of the gaseous poisons.
 - (2) What is the difference between toxic and toxin?
- (C) Answer any one question in detail (07)
 - (1) Give the classification of poison.
 - (2) Write a note on toxic sample collection and preservation technique of the evidences collected from crime scene and sent to the FSL.

Q-4 Give the answer of following questions. (14)

- (A) Answer the following question very shortly (any four) (04)
 - (1) Which product include in Petroleum product?
 - (2) What is the value of Density of typical standard petrol at 15⁰ C?
 - (3) The smoke point of typical standard kerosene is _____?
 - (4) Oil orange dye of petrol give the value of λ max in UV spectroscopy is _____.
 - (5) Diesel consists essentially of _____ hydrocarbons.
- (B) Shortly answer any one question (03)
 - (1) What are IBP and FBP, which relates to distillation of petroleum product?
 - (2) Mention the types of fire.
- (C) Answer any one question in detail (07)
 - (1) Give the characteristics of standard diesel and Write a note on distillation of diesel.
 - (2) Arson crime scene management.

Q-5 Give the answer of following questions. (14)

- (A) Answer the following question very shortly (any four) (04)
 - (1) How much amount of alcohol is found in rum?
 - (2) Which is the main component in the composition of Jaggery?
 - (3) Which chemical changes the color of Phenolphthalein from white to pink in anti corruption cases?
 - (4) Which color is obtained at last to indicate the presence of methanol in Chromo tropic Acid test?
 - (5) Which preservative is added with any biological evidence during its preservation in glass bottles to avoid the fungal growth that may happen in plastic bottles?
- (B) Shortly answer any one question (03)
 - (1) Test for the analysis of drinking alcohol.
 - (2) Write the uses of Jaggery.
- (C) Answer any one question in detail (07)
 - (1) Forensic Analysis of ethyl alcohol and methyl alcohol.
 - (2) Describe bribe trap cases and forensic examination of phenolphthalein.