

B.Sc.(FS) Semester - 4 (CBCS) Examination**March/April- 2019****FORENSIC SCIENCE****(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) State Beer's Law.
 - (2) Who discovered AAS?
 - (3) How many elements can be analyzed using one HCL lamp?
 - (4) What is the function of atomizer?
 - (5) What does EDL stand for?
- (B) Shortly answer any one question (03)
- (1) Explain about nebulizer used in NMR instrumentation.
 - (2) What are the characteristics of a balance used in thermo gravimetry?
- (C) Answer any one question in detail (07)
- (1) Explain the AAS instrument in brief.
 - (2) Explain Differential Scanning Calorimetry.

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

- (A) Answer the following question very shortly (any four) (04)
- (1) Which chain is variable in the antibodies?
 - (2) Mention the types of antibodies.
 - (3) Define antigen
 - (4) Define Antibody
 - (5) Draw a diagram of antibody
- (B) Shortly answer any one question (03)
- (1) What does ELISA stand for? Explain the process in detail.
 - (2) Explain agglutination and immunoprecipitation.
- (C) Answer any one question in detail (07)
- (1) Explain the process of Radio Immuno Assay.
 - (2) Discuss any three type of antigen antibody reaction.

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

- (A) Answer the following question very shortly (any four) (04)
- (1) What is included in a fire triangle?
 - (2) Define arson.
 - (3) How many carbons are available in petrol?
 - (4) Define flash point.
 - (5) What does RON stand for?
- (B) Shortly answer any one question (03)
- (1) Discuss the distillation process for petrol.
 - (2) Discuss the two tests for phenolphthalein.
- (C) Answer any one question in detail (07)
- (1) Explain the process of TLC for petrol.
 - (2) Discuss arson crime scene management in brief.

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

- (A) Answer the following question very shortly (any four) (04)
- (1) Define interlineations.
 - (2) What is meant by obliteration?
 - (3) What is Indian currency known as?
 - (4) What is numismatic?
 - (5) What does CVV stand for?
- (B) Shortly answer any one question (03)
- (1) Discuss the Intaglio Printing.
 - (2) Explain addition in documents in brief.
- (C) Answer any one question in detail (07)
- (1) Explain the security features of passport.
 - (2) Explain the examination of counterfeit coins.

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

- (A) Answer the following question very shortly (any four) (04)
- (1) What is digital Forensics?
 - (2) List out any 2 sources of digital evidence.
 - (3) What is the full form of BHIM?
 - (4) Name any 2 E-Wallets.
 - (5) Give names of 4-5 different Cyber-Crimes occurring nowadays.
- (B) Shortly answer any one question (03)
- (1) Discuss the application of Digital Forensics?
 - (2) What can be the motives of doing cyber-crimes?
- (C) Answer any one question in detail (07)
- (1) Enlist types and subtypes of cyber-crimes
 - (2) Describe the sources of digital evidence and what types of digital evidences
