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**B.Sc. Forensic Science (Semester – 4<sup>th</sup>)**

**FORENSIC CHEMISTRY**

**Subject Code: BHFSS1401**

**Paper ID: [21132214]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a. Forensic Chemistry
- b. Qualitative analysis
- c. Coulometry
- d. Conditions for fire
- e. Ignitable liquid residue.
- f. Volumetric analysis
- g. Arson
- h. Blasting wave
- i. Post blast residue
- j. Hidden explosives

**Section – B**

**(5 marks each)**

- Q2. Discuss ‘solid phase extraction’ separation techniques in detail.
- Q3. What are oxidation and reduction reactions? Give examples.
- Q4. Write note on Blast injuries.
- Q5. Discuss Chemistry of fire.
- Q6. How the fire debris are analysed in the laboratory?

**Section – C**

**(10 marks each)**

- Q7. Explain the classification of Titrimetric analysis
- Q8. Write note on the followings:
  - a) Post-flashover burning. Scientific
  - b) Smoke staining.
- Q9. Discuss in detail the types of evidences to be collected from the fire scene.