Roll No…….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [09]

B.Sc. Forensic Science (Semester – 4th)
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. Coulometery
   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.