

(d) Differentiate between edgeoscopy and poroscopy.

(4,5,3,3)

4. (a) Explain the role of a forensic chemist at a fire scene. What evidences can be collected from the fire scene?

(b) Explain scope and significance of explosive analysis in forensic science.

(c) Give the chemical composition of various fractions of petroleum products. (5,5,5)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4736

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Unique Paper Code : 2176000008

Name of the Paper : FORENSIC CHEMISTRY

Name of the Course : **B.Sc. (Hons)/ B.Sc. (Prog)**

Semester : II/IV

Duration : 1 Hour

Maximum Marks : 30

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **two** questions in all.
3. **All** questions carry equal marks.

1. Attempt (any **three**) questions :-

(a) What is Forensic science? Give different branches of forensic science.

(b) Write short note on TLC and its application.

(c) What is arson and explain different motives of Arson?

(d) Discuss different types of alcoholic beverages. Give examples. (5,5,5)

2. (a) What are latent fingerprints? Describe any one powder method for developing the latent fingerprints from curved or rough surfaces.

(b) Differentiate between detonation and deflagration. Give any two examples of explosives.

(c) Define the elements of fire tetrahedron.

(d) Fill in the following blanks :-

(i) Iodine vapours interact with _____ content of fingerprints.

(ii) _____ can be used as an adulterant in petrol/ diesel. (5,5,5)

(iii) The full form of AFIS is _____. (4,4,4,3)

3. (a) Define drugs of abuse? Discuss the harmful effects of drugs of abuse.

(b) Identify the fingerprint patterns of the following : (any 5)



i)



ii)



iii)



iv)



v)



vii)

(c) Explain the role of phenolphthalein as a detective dye.