

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **3920** **I**

Unique Paper Code : **2176000008**

Name of the Paper : **SEC; Forensic Chemistry**

Name of the Course : **All undergraduate courses.**

Semester : **I/III/V**

Time : 1 Hour

Maximum Marks : 30

Instructions for Candidates:

(a) Write your Roll No. on the top immediately on receipt of this question paper.

(b) Attempt any **two** questions.

1. (a) Explain the difference between deflagration and detonation. Give the examples of material used for each. 5

(b) Describe the iodine fuming method for development of latent fingerprints. 5

(c) Fill in the blanks (any 5) 5

(i) is an example of country made liquor.

P.T.O.

(ii) is the main analytical tool for identification of petrol, kerosene and diesel.

(iii) First Fingerprint Bureau of the world was established at

(iv) is an adulterant present in diesel.

(v) Different fractions of petroleum are separated on the basis of their difference in

(vi) dye is used for analysis in trap cases.

2. (a) How is preservation and forwarding of evidence done in explosion cases? 5

(b) Poroscopy is a personal identification method. Explain. 5

(c) How is AFIS used by National Crime Records Bureau beneficial over manual classification? 5

3. (a) Explain the explosive train which aids the explosion of tertiary high explosive. 5

(b) Write the basis of Henry's ten-digit classification of fingerprints. 5

(c) What are the various types of powders used for the development of latent fingerprints? Explain any one in detail. 5

4. Write short notes on any **three**

(a) Ill effects of drugs of abuse 5

(b) Inked fingerprints and plastic fingerprints 5

(c) Preliminary analysis of explosives 5

(d) Fire tetrahedron 5
