

**4685**

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- (c) Write a short note on country made liquor and denatured spirits. (5,5,5)

(700)

[This question paper contains 4 printed pages.]

**Your Roll No.....**

**Sr. No. of Question Paper : 4685 L**

Unique Paper Code : 2176000008

Name of the Paper : SEC: FORENSIC CHEMISTRY

Name of the Course : All undergraduate courses

Semester : II/IV/VI

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.

1. (a) Name the most significant principle of forensic science., Give its application.

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(b) Discuss precautions in handling evidence from a site of explosion.

(c) Fill in the blanks :

(i) Ninhydrin reacts with \_\_\_\_\_ present in sweat to produce a purple colour.

(ii) In trap cases, the commonly used chemical is \_\_\_\_\_.

(iii) The study of pores in fingerprints is known as \_\_\_\_\_.

(iv) \_\_\_\_\_ is an example of country made liquor.

(v) Different fractions of petroleum are separated on the basis of their difference in \_\_\_\_\_. (5, 5, 5)

2. (a) Describe the powdering method for development of latent fingerprints.

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(b) Differentiate between deflagration and detonation, giving examples of the chemicals used.

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

3. (a) Describe the fire tetrahedron and explain the chemistry of fire.

(b) What is the importance of chromatographic techniques in forensic analysis?

(c) Give an example of narcotic drug and outline its impact on human beings. (5,5,5)

4. (a) Describe the organizational structure of forensic science laboratories in India.

(b) Give Henry's classification of fingerprints for an individual having whorl pattern in left middle finger and right thumb, the remaining being loops.

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