

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4648

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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) Fill in the blanks :

(i) The exchange of materials between objects is known as _____ principle.

(ii) Analysis of explosives is done by _____ reagent.

(iii) _____ is an adulterant present in petrol.

(iv) _____ and _____ metals are used for vacuum metal deposition technique.

- (b) What are hallucinogens? Give examples and discuss their ill effects.

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- (c) How is country made liquor different from Indian made foreign liquor? Give examples of each. (5,5,5)
2. (a) Explain the difference between poroscopy and edgescopy.
- (b) Give Henry classification of fingerprints for an individual having whorl pattern in right thumb and left thumb, the remaining being loops.
- (c) Describe the significance of different branches of forensic science. (5,5,5)
3. (a) Describe any one type of explosive train involving high explosives.
- (b) Discuss the methods employed for collection and preservation of fire debris.
- (c) How is analysis of evidence carried out in trap cases? (5,5,5)
4. (a) Describe different types of fingerprint characters.
- (b) How are petrol, kerosene and diesel analysed in forensic science laboratory?
- (c) How will you carry out analysis of ink by chromatographic technique? (5,5,5)
- (700)