

FORENSIC CHEMISTRY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

- Solvent used for dewaxing of petroleum product are
 - Furfural
 - Methyl ethyl ketone
 - Butane
 - Gasoline
- When crude oil is heated, which of the following hydrocarbon is given off first?
 - Kerosene
 - Gasoline
 - Paraffin
 - Natural gas
- Toddy is prepared from sweet juice tapped from
 - Stem
 - Inflorescence
 - Root
 - Maize
- Alcohol not metabolized is changed into
 - Butanol
 - Butyric acid
 - Acetic acid
 - Acetaldehyde

5. Opiate narcotic is
- (a) Amphetamine (b) Morphine
(c) LSD (d) Barbiturate
6. Which of the following is narcotic?
- (a) Charas (b) Bhang
(c) Ganja (d) Heroin
7. The eluant filled in the closed jar is
- (a) Mixture of gases
(b) Mixture of liquid and gas
(c) Mixture of solid
(d) Mixture of liquid
8. Which method is used for liquid samples in gas chromatography?
- (a) Gas tight syringe
(b) Micro syringe
(c) Rotatory sample valve
(d) Solid injection syringe
9. Which explosive is known as Octogen?
- (a) RDX (b) HMX
(c) Semtex (d) Black powder

15. (a) Write the synthesis and characteristics of PETN.

Or

- (b) Give a detail about searching scene of explosion.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain petroleum distillation and fractionation.
17. Write a detailed note on anabolic steroids.
18. Explain detection and determination of methanol.
19. Explain homemade explosives.
20. Discuss bomb scene management.
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