

(14) Which is the main component in the composition of

(12) Which component of Opium gives Analgesic effect ?(13) If we take an overdose of Opium, then what is the

body increases or decreases?

Jaggery, Sucrose or Glucose?

temperature effect on our human body; temperature of

- (15) Which chemical changes the color of phenolphthalein from white to pink in anticorruption cases?
- (16) Which color is obtained at last to indicate the presence of methanol in Chromotropic Acid Test?
- (17) Which preservative is added with any biological evidence during its preservation in glass bottles to avoid the fungal growth that may happen in plastic bottles?
- (18) Which physical evidence can be used for analysis to determine the level of intoxication in drunk driving cases?
- (19) Give the example of the carbamate.
- (20) By which method metallic poisons are extracted before its analysis?
- 2 Give the answers of following questions as per instructions:
 - (a) Write any three out of six:

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- (1) List out the names of petroleum product.
- (2) Give any 2-3 names of the gaseous poisons.
- (3) Name the research centers researching on Jaggery to enhance the productivity of the process.
- (4) Write about binder which is the main component of paint.
- (5) Preparation of solvent system for TLC of petrol and kerosene.
- (6) Define flash point and pour point.
- (b) Write any three out of six:

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- (1) Give the introduction of forensic chemistry and related cases.
- (2) List out the types of cases and exhibits which come under the forensic chemistry division.
- (3) Types of heat transfer.
- (4) Write a short note on Opium.
- (5) Thin layer chromatography of petrol for the analysis of adulteration.
- (6) Reasons behind arson cases.

- Write any two out of five: 10 (c) (1)Forensic analysis of ethyl alcohol and methyl alcohol. (2)Forensic analysis of fiber sample Characteristics of standard petrol and write a note (3)on distillation of diesel. How to extract Cocaine Hydrochloride from dry (4) powder of coca Leaf. (5)Write a note on Arson crime scene management. Give the answers of following questions as per instructions: Write any three out of six: 6 What is the difference between toxic and toxin? (2)Scopes of toxicology. (3)Define smoke point and give the value of smoke point of kerosene. Define motor spirit and kerosene as per order 1993 (4) by section 3 of Essential Commodities Act. Name the chemicals used in anti-corruption cases. What is the difference between fire and arson? (b) Write any three out of six: 9 Write the extraction of Heroin from opium. (1)Classification of fiber. (2) Describe distillation of petrol. (3)Write a note on types of fire. (4) (5)Classification of poisons with example. (6) Give the difference between narcotic drugs and psychotropic substances and give its example. (c) Write any two out of five: 10 (1)Manufacturing of cement and forensic examination
 - (1) Manufacturing of cement and forensic exami of cement.
 - (2) Write a note on main components of paint.
 - (3) Instrumental techniques used in analysis of poison.
 - (4) Write a note on toxic sample collection and preservation technique of the evidences collected from crime scene and sent to the FSI.
 - (5) Define fire triangle and fire tetrahydrant and write a note on chemistry of fire.

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