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SEAT No. _____

No of printed pages: 02

SARDAR PATEL UNIVERSITY
M.Sc. (FORENSIC SCIENCE) Semester-II, Examination
Wednesday, 20th March-2019
PS02CFSC22- Forensic Chemistry

TIME- 10:00 am-01:00 pm

TOTAL MARKS-70

Instructions:

Figures to the right indicate maximum marks of the questions.

Q-1 Multiple choice questions:

[08]

- Inorganic Compound does not contain _____.
A) carbon
B) nitrogen
C) oxygen
D) all
- Fatal dose for Amphetamines is _____.
A) 120-200 mg
B) 3- 4 gm
C) 120-250 mg
D) 100-200 mg
- Which blue dye is used for colouring kerosene?
A) Tri alkyl amino anthraquinone
B) Di alkyl amino anthraquinone
C) Phenyl azo 2-naphthol
D) Phenyl azo 3-naphthol
- At lowest temperature at which liquid gives vapour to form an ignitable mixture with air that will support Combustion is referred as a _____.
A) Smoke point
B) Flash point
C) Pour point
D) Aniline point
- In Benzidine test a blue Colour appears on filter paper, which indicates the presence of _____.
A) Pesticides
B) Tobacco
C) Gold
D) Silver
- _____ is used in Pesticide residue analysis because of its selectivity for phosphorus and nitrogen containing compounds.
A) MSD
B) NPD
C) ECD
D) FPD
- Military bombs bear following characteristics on their basic structure.
A) Identification mark of their make
B) Year of manufacture
C) Both A & B
D) None of the above
- Initiation devices utilize one of the following sources of energy.
A) Shock
B) Heat
C) Electric current
D) All of the above

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(P.T.O.)

Q-2 Answer in short (Any Seven).

[14]

1. Define narcotic drugs. Write the name of any two drugs.
2. Write effects of Opiates on Human body.
3. What is Forensic Chemistry? Write role of Forensic Chemist.
4. Define "Tetrahedron of Fire" with figure.
5. Give brief note on Cosmetics trace evidence.
6. Write Acidic nature test for Aqua-regia.
7. State Description of plant and Active Constituents of Tobacco.
8. Give definition of IEDs. Enlist types of IEDs.
9. What is Explosive train?

Q-3

- A] Explain in Detail: The Classification Chart of Liquor.
B] Explain source, uses and analysis of opium and cocaine drug.

[06]

[06]

OR

- B] Explain Scope of Forensic Chemistry and Types of Cases exhibits in Forensic Chemistry.

[06]

Q-4

- A] As forensic Investigator, how would you investigate Arson Cases? Explain it.
B] Give a note on Phases of Fire.

[06]

[06]

OR

- B] Write a short note on Kerosene and its Characteristics.

[06]

Q-5

- A] Write in Detail: Analysis of Silver.
B] Discuss Analysis of Organo Phosphorous Pesticides.

[06]

[06]

OR

- B] Quantitative and Qualitative Forensic Analysis of Consumer Product Tobacco.

[06]

Q-6

- A] Explain Characteristics of Explosives
B] Give Different between High Explosive & Low Explosive in detail.

[06]

[06]

OR

- B] Explain Classification of Explosives with examples.

[06]

X
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