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SEAT No. \_\_\_\_\_

[28]

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**SARDAR PATEL UNIVERSITY**

**M.Sc. Forensic Science (Semester-II) Examination**

Wednesday, 11<sup>th</sup> April-2018

PS02CFSC22: Forensic Chemistry

TIME- 10.00AM - 01.00PM

TOTAL MARKS- 70

Instructions:

1. Answer of all the questions (including multiple choice questions) should be written in the provided answer book only.
2. All the questions are compulsory.
3. Figures to the right indicate maximum marks of the questions.

**Q-1 Multiple Choice Questions:**

(8)

1. \_\_\_\_\_ contain 2 to 6 % alcohol.
 

(a) Ale	(b) Champagne
(c) Spirit	(d) Sherry
2. \_\_\_\_\_ Drug stimulate the various body functions.
 

(a) Amphetamines	(b) LSD
(c) Opium	(d) Morphine
3. Color test is useful for the analysis of \_\_\_\_\_.
 

(a) Organic	(b) Inorganic
(c) Both	(d) None
4. Flash point of light diesel oil is \_\_\_\_\_.
 

(a) 69 <sup>o</sup> C	(b) 66 <sup>o</sup> C
(c) 80 <sup>o</sup> C	(d) 120 <sup>o</sup> C
5. The widely used Carbamate is \_\_\_\_\_.
 

(a) DDT	(b) Endrin
(c) Carbafulan	(d) Dieldrin
6. The Moisture estimation is determined by \_\_\_\_\_.
 

(a) Kjeldahl Method.	(b) Spectrophotometer.
(c) Karl-Fischer titration Method.	(d) None of the above.
7. Low Explosives are also known as \_\_\_\_\_.
 

(a) Detonating Explosive	(b) TNT
(c) Primary Explosive	(d) Deflagrating Explosive
8. ECD stands for \_\_\_\_\_.
 

(a) Electron Chemiluminescence detector
(b) Electron capillary device
(c) Electron capture detector
(d) None of the above.

[P.T.O.]

**Q-2 Answer in Brief: (Attempt Any -7) (14)**

1. Write down the factors affecting absorption of alcohol in body.
2. Define illicit Liquor.
3. Write a short note on "Free-Burning Phase".
4. Define Flashpoint of Liquids.
5. State the Forensic importance of Gold analysis.
6. Define hallucinogen and write two examples of it.
7. What is meant by adulteration of petroleum product?
8. Write a short note on "Low Explosives".
9. Define Presumptive test & Confirmatory test.

**Q-3(A) Explain GC-MS & Breath analyzer test. (06)**

**(B) Explain source, uses and analysis of opium and cocaine drug. (06)**

**OR**

**(B) Give detail about Designer drugs & their forensic importance. (06)**

**Q-4(A) Write a short note Petroleum Products. (06)**

**(B) Write short note on: Examination of Fiber. (06)**

**OR**

**(B) Explain analysis of arson exhibits by Instrumental methods. (06)**

**Q-5(A) Explain source, uses and analysis of gold and silver. (06)**

**(B) Explain Fertilizer & its Classification. (06)**

**OR**

**(B) Explain Instrumental analysis of Organo-Phosphorous Insecticides. (06)**

**Q-6(A) What short notes on Improvised Explosive Device (IED). (06)**

**(B) Explain Home-made crude explosive device. (06)**

**OR**

**(B) Give detail about Instrumental techniques used in analysis of Explosives. (06)**

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