

SEAT No. _____

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[14/A-13]

SARDAR PATEL UNIVERSITY

B.Sc. (Semester-IV) Examination

Friday, 20th April-2018

US04EFSC01: PRINCIPLES OF FORENSIC SCIENCE

Time: 10:00am-12:00pm

Total Marks: 70

Instructions:

1. All the questions are compulsory.
2. Figures to the right indicate maximum marks of the questions.

Q-1 Multiple Choice Questions:

(10)

1. Antidote is used, where the nature of the ingested poison is unknown.
(a) Universal Antidote (b) Charcoal
(c) Mixed antidote (d) Salt water
2. _____ is used as Preservation if evidence is Blood.
(a) EDTA (b) No Preservative
(c) Normal water (d) NaCl
3. Failure of the respiratory system is known as _____.
(a) Coma (b) Asphyxia
(c) Injury (d) Sliding abrasion
4. Nail Scratches injury found on neck is found in _____.
(a) Smothering (b) Throttling
(c) Drowning (d) None of the above
5. Production of fluids produced by the sweat gland in mammals is known as _____.
(a) Urination (b) Puking
(c) Perspiration (d) Vomiting
6. The pH of Blood is _____.
(a) 6.2 to 6.4. (b) 7.8 to 8.2.
(c) 7.3 to 7.4. (d) 5.2 to 5.7.
7. Body fluid secreted from lacrimal gland in a person is known as _____.
(a) Saliva (b) Sweat
(c) Tear (d) None of the above
8. _____ is a person who commits arson.
(a) Arsonist (b) Builder
(c) Passionist (d) Fire Investigator
9. Combustion zone is also known as _____.
(a) Plum zone (b) sludge zone
(c) Third zone (d) First zone
10. _____ is responsible for conversation of Disaccharide to Monosaccharide.
(a) Invertase (b) Zymase
(c) Envertase (d) Lypase

[P.T.O.]

Q-2 Answer in Brief: (Any 10)

(20)

1. Define Toxicology & its importance in Forensic Science.
2. Define forensic toxicology.
3. Define Psychological Dependence & Physical Dependence.
4. Define Asphyxia & enlist its causes.
5. Write down the medicolegal importance of Abrasion.
6. Enlist the types of Stab wound.
7. Define Emetics and non-productive emesis.
8. Write a note on composition of saliva and its Function.
9. Write starch-Iodine test for saliva.
10. Enlist rules of fire origin.
11. Define Fermentation & Distillation.
12. How mood is affected after consuming alcohol.

- Q-3 (A) Explain mode of action of poison in human being. (5)**
(B) Write a note on effect of drugs on human body. (5)

OR

- (A) Describe the classification of poison according to nature of poison. (5)**
(B) Write a note on: Antidote. (5)

- Q-4 Define Abrasion and explain various types of abrasion with MLA. (10)**

OR

- Describe Thermal Injuries in details. (10)**

- Q-5 (A) Enlists various test for urine analysis & describe any two test. (5)**
(B) Explain RIA test for Saliva examination. (5)

OR

- (A) Explain Blood and describe its components in brief. (5)**
(B) Write down various examination of vomit. (5)

- Q-6 (A) Explain the Motives behind Arson (5)**
(B) Explain chemistry of fire in detail. (5)

OR

- (A) Explain various test for ethyl alcohol. (5)**
(B) Describe the preparation of LATTHO (5)