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SARDAR PATEL UNIVERSITY

B.Sc. Examination; Semester -II

TUESDAY, 5th APRIL, 2016

US02EFSC12: FUNDAMENTALS OF FORENSIC SCIENCE

TIME- 10:30AM - 12:30 PM

TOTAL MARKS- 70

Q-1 Choose the correct answer from the given options:

(10)

- 1) Chelioscopy is the study of _____.
(a) Lip prints (b) shoe prints
(c) Footprint (d) fingerprints
- 2) _____ Footprints are caused in mud.
(a) Negative (b) sunken
(c) Surface (d) positive
- 3) Linear distance between two successive steps is known as _____.
(a) Stride width (b) step length
(c) Stride length (d) step width
- 4) Sample having unknown origin is known as _____.
(a) Complete (b) questioned
(c) Partial (d) known
- 5) Boiling point of kerosene is _____ C°.
(a) 250-260 (b) 150-250
(c) 260-270 (d) 270-280
- 6) Gold only dissolve in _____ Solution.
(a) aqua-royal (b) aqua- region
(c) Aqua-regia (d) none of the above
- 7) _____ Blood group people are universal acceptor.
(a) O (b) A
(c) B (d) AB
- 8) When blood drop strikes on wall at right angle it will be in _____ shape.
(a) Tailed (b) Semi round
(c) Oval (d) Round
- 9) variation in hand writing of same individual is known as _____ variation
(a) Complete (b) Natural
(c) Partial (d) Unnatural
- 10) _____ samples of signatures are collected if questioned document is signature.
(a) 32 (b) 30
(c) 35 (d) 34

Q-2 Answer the following: (Any 10)

(20)

1. Define footprints and shoe print
2. What is visible print?
3. Draw human gait pattern.
4. Define forensic chemistry.
5. Define extraction
6. Give Fullform of TLC and HPTLC.
7. Write any two function of blood.
8. Write down phenolphthalein test for blood.
9. Write in short about plasma.
10. Define questioned document.
11. Define pseudonymous document.
12. Explain the term forgery.

Q-3(A) Give different types of foot prints.

[5]

(B) With the help of diagram explain structure of skin briefly.

[5]

OR

Q-3(A) List out different types of Fingerprint impressions.

[5]

(B) Define Gait and explain human gait pattern

[5]

Q-4(A) Explain the terms: (i) Distillation (ii) Extraction (iii) Known sample

[5]

(B) Give test for Gold and Tobacco

[5]

OR

Q-4(A) Describe physical and chemical property of compound

[5]

(B) Write short note on Chromatography and LCMS

[5]

Q-5(A) Write brief note about RBC and WBC.

[5]

(B) What are the different blood types according to ABO blood grouping system?

[5]

OR

Q-5(A) Give different functions of blood in human body.

[5]

(B) Explain who can be the donor and receiver in blood groups with the help of chart

[5]

Q-6 (A) Explain the terms (i) Document (ii) Hand writing

[5]

(B) Explain collection of request writings.

[5]

OR

Q-6(A) Explain basic principle of hand writing.

[5]

(B) Explain the procedure for collection of type script writings

[5]

ALL THE BEST