

(66) Seat No.: _____

No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY

M.Sc. Semester –III (Forensic Science) Examination

SATURDAY, 22nd, Oct 2016

PS03CFSC01: FORENSIC PHYSICS

TIME- 02.00PM - 05.00PM

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. _____ glass is one of the most common type of borosilicate glass.
(a) Safety (b) Pyrex
(c) Flint (d) Wired
2. The variation in soil composition occurs every _____ yards from the crime scene.
(a) 1 to 10 (b) 10 to 50
(c) 10 to 100 (d) 10 to 150
3. The part of the tire that comes in contact with the road surface is known as _____.
(a) Tread (b) Rubber
(c) Lands (d) None of the these
4. Least count of micrometer screw gauge is _____ mm.
(a) 1 (b) 0.1
(c) 0.01 (d) 0.001
5. Concrete is a blend of _____.
(a) Mortar, cement & sand (b) Cement, sand & aggregate pieces
(c) Sand & cement (d) Sand & debris
6. _____ is/are the method/methods used to obliterate identification marks.
(a) Substitution (b) Peening
(c) Both a & b (d) None of these
7. The structure above larynx and in front of vertebrae is _____.
(a) Vocal tract (b) Supra laryngeal vocal tract
(c) Oesophagus (d) Trachea
8. The vibration of vocal cord is called as _____.
(a) Sound (b) Relaxation
(c) Abduction (d) Voicing

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

(14)

1. How will you determine the sequence of bullet holes on glass?
2. Enlist different types of soil available in India.
3. Give the forensic significance of Seal.
4. What do you mean by Yarn?
5. Write down the composition of Portland cement.
6. Define Mortar.
7. Give the preliminary examination for tempered identification mark.
8. Define f-Pattern.
9. Explain Vocal Cord.

Q-3(A) Write a short note on Types of Glass.

(06)

(B) Give the chemical examination of Soil based on Density Methods.

(06)

OR

(B) Explain in detail 'Soil Profile'.

(06)

Q-4(A) Explain in detail Examination of Paint.

(06)

(B) Write a short note on types of Tool Marks.

(06)

OR

(B) Describe the methods used for manufacturing Counterfeit Coins.

(06)

Q-5(A) Explain the different types of Cement in details.

(06)

(B) Give the test for examining quality of Cement

(06)

OR

(B) Write down the Etching Methods for different surfaces (Any 3).

(06)

i) Steel ii) Lead iii) Wood iv) Auto rickshaw Engine

Q-6(A) Describe in detail Source Filter Theory.

(06)

(B) Explain the Instrumentation of Sound Spectrogram.

(06)

OR

(B) Write a short note on i) Handling and processing of audio recording evidences

(03)

ii) Speaker Recognition

(03)

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