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SARDAR PATEL UNIVERSITY

M.Sc. (Forensic Science) Semester - III
Thursday, 02 November, 2017

PS03CFSCOL: Forensic Physics

Time: - 2:00 pm - 5:00 PM

Total marks - 70

Note- Answer of all the questions (including multiple choice questions) should be written in the provided answer book only.

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Insi	ructions:	

	 All the questions are compulsory. Figures to the right indicate maximum man 	rks of the questions.
Q-	1 Multiple Choice Questions:	(8)
1.	The 3-R rule stands for a) Radial fracture are at right angle at to b) Radial fracture are at right angle at to c) Ridgeline on radial fracture are at right.	the opposite to rare side of impact.
2.	d) All of above The Particle size of sand is a) 0.005-2mm c) 0.5-2mm	b) 0.05-2mm d) 5.0-2mm
3.	Which component is used as a hiding pigma) SiO ₂ c) CaCo ₃	nent? b) TiO ₂ d) FeO ₂
4.	A single length of fiber consisting called a) Fiber c) Strings	of material twisted together to form a thin length is b) Rope d) Cable
5.	Which of the following material is not use a) Dental material c) Wood metal 	d in casting? b) POP d) none of above
6.	PPC is an abbreviation of a) Portland pozzuolana cement c) Pozzuolent portland cement	b) Pozzuolana Portland cement d) Portland plaster cement
7. 8.	a) Larynx c) Glottis	b) Pharynx d) Epiglottis
0.	a) 1:1 c) 1:100	b) 1:10 d) 1:n

Q-2 Answer in Brief: (Any 7)	(14)
1) Define glass along with its ingredients.	
2) Explain curvature in terms of glass.	
3) Give the importance of tool marks as an evidence.	
4) What do you mean by foot angle and principle angle?5) Define electrolytic etching in terms of restoration	
y the system g m toring of tostoration.	
6) Describe any two types of skid marks found at crime scene.7) Define voice & speech.	
8) Elaborate about speech recognition.	
9) Justify: why soil varies at different places.	
Q-3 (A) Define glass and explain types of glass fractures.	(0.6)
(B) Explain soil profile with its significance in forensic science.	(06)
OR	(06)
(B) Write a short note on soil examination.	(0.0)
	(06)
Q-4 (A) Give the examination of seal.	(06)
(B) Write a short note on examination of tool marks.	(06)
OR	(06)
(B) Define chieloscopy and give the classifications of lip print.	(0.0)
to Comment of the print.	(06)
Q-5 (A) Write a short note on cement.	(06)
(B) Explain the types of obliteration marks.	(06)
OR	(00)
(B) What is restoration and explain the types of restoration methods.	(0.0)
y	(06)
Q-6 (A) Describe digitalization of voice and its importance in forensic science.	(06)
(B) (i) Explain text dependent and text independent in terms of voice	
(ii) Write a note on inter speaker and intra speaker of voice	(03)
OR	(03)
(B) Explain Acoustic theory.	(0.0)
· · · · · · · · · · · · · · · · · · ·	(06)

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SARDAR PATEL UNIVERSITY

M.Sc. (Forensic Science) Semester-III

External Examination Monday, 6th November-2017 Subject Code- PS03CFSC02

Subject: Forensic Toxicology and Forensic Pharmacology and Forensic Serology Total marks: 70 Time- 02:00 pm - 05:00 pm

Q-1 N	Multiple Choice Questions:		(8)
1.	Poison that gets accumulated in organs an a) Stored c) Processed	d tissues are known as b) Cumulative d) Controlled	poison
2.	Sea snakes fall under the sub family know a) Hydrophiinae c) Viperidae	n as b) Boidea d) None of the above	
3.	Antimony is a type of apois a) Metallic c) Vaporised	son b) Non Metallic d) None of the above	
4.	Abrus Precatorius contains the toxalbumir a) Abrin c) Febin	h known as b) Calbrin d) Ubrin	
5.	In regard to oestradiol, Oxytetracycline is a) Analogue c) Dialogue	considered as an b) Prologue d) None of the above	
6.	Drug Metabolism mostly occurs in a) Pancreas c) Stomach	b) Heart d) Liver	
7.	Anti- H lectin is derived from the plant a) Ulex europaeus c) Felix europaeus	seed b) Vilex eurpaeus d) Rolex europaeus	
8.	Blood Groups are inherited as per a) Mendelian c) Mongolian	principles. b) Mandolian d) Multimedian	

Q-2 Answer in Brief: (Any Seven)	(14)
1) What are the various classifications of poison as per nature of use?	
2) Define Antivenin?	
3) What happens post bite in case of Scorpion Bite?	
4) What is Ion Chromatography?5) Explain the HPLC.	
6) Define Bio Transformation.	
7) Explain Entero-Hepatic Changes.	
8) Elaborate the confirmatory test for the presence of blood.	
9) What do you understand by Bombay Blood Group?	
Q-3 (A) A person named Joel, is suspected to have died of Mercury Poisoning. File a	(06)
lab report describing the findings as per Post Mortem findings.	
(B) Elaborate the sources, symptoms of Arsenic Poisoning	(06)
OR	(0.0)
(B) (i) State the features of Poisonous Snakes	(03)
(ii) Discuss any two toxicity tests for Snake Venom.	(03)
Q-4 (A) Elaborate about Micellar Extraction	(06)
(B) (i) Define Distillation and state its types.	(03)
(ii) Explain Solvent Extraction.	(03)
OR	(0.0)
(B) What do you understand by Solid Phase Extraction	(06)
Q-5 (A) Explain Bio Transformation of Drug in detail	(06)
(B) (i) How does the Individual Variations in Metabolism impact the Drug	
Interaction in Human Body?	(03)
(ii) Define: Derivatization and its types.	(03)
OR	
(B) Write short on Absorption, Distribution Factors and Biotransformation of	(D.C)
Drugs	(06)
Q-6 (A) How would you collect Vomit from the Scene of Crime and analyze it?	(06)
(B) (i) Explain DNA profiling and Mention the types of Molecular Marker.	(03)
(ii) Write a note on Lewis Blood Type	(03)
OR	(0.7)
(B) (i) What happens in case of Rh incompatibility during Pregnancy	(03)
(ii) Write a short note on Iso-enzyme and its forensic importance	(03)

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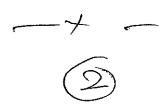
SARDAR PATEL UNIVERSITY

M.Sc. (Forensic Science) Semester III- Examination Subject Code- PS03CFSC03

<u> </u>	t: FORENSIC MEDICINE	
DATE-08/11/2017 WEDNESDAY		TIME-2:00pm-5:00pm TOTAL MARKS- 70
Q1. Multiple choice questions:		[8]
1.) The destruction of the superficial e	pithelial covering of skin (epider	mis) due
to impact with rough and hard obj	ect is known as	
a) Abrasion	b) Laceration	
c) Bruises	d) Wound	
2.) The "Stab wound" is also known a	s	
a) Stretch wound	b) Punctured wound	
c) Cut wound	d) Scratch wound	
3.) The unicellular algae with inert sili	icon coating is known as	•••
a) Diatom	b) Silicon atom	
c) Triatom	d) Red algae	
4.) When the neck is compressed between	een two bamboo sticks, it is calle	ed as
a) Throttling	b) Mugging	
c) Suffocation	d) Bansdolla	
5.) The failure of circulatory system is	stermed as	
a) Coma	b) Asphyxia	
c) Syncope	d) Dyspnoea	
6.) Length of Tibia/length of Femur*1	00 formula is for	
a) Cephalic index	b) Crural index	
c) Brachial index	d) Dolico cephalic	•
7.) The authorized digging out of a bu	ried dead body from the grave is	known as
a) Extortion	b) Exhumation	
c) Burring	d) Café caronary	
8.) The top portion of tooth covered by	y enamel is known as	
a) Cementum	b) Enamel	
b) Crown	d) Dentine	
Q2. Answer in Brief: (any 7)		[14]
1) Explain "Gutter Fracture".		
2) Define Bruises and explain its fe	atures.	
3) Explain the term "judicial hangir	ıg".	
4) Write down the medicolegal defi	nition of death.	·
		(P.T.D.)

(P.T.O.)

5) What do you mean by "Choking".	
6) Explain the postmortem staining phenomenon.	
7) Explain the features of periodontosis diseases.	
8) Write a list of different racial group.	
9) Define osteometry and name the instruments used for measurement of bones.	
Q3[A] Write a detail note on Abrasion.	[6]
[B] Write in detail about different types of skull fractures.	[6]
OR	
[B] Write a note on Wilson's modified method of burn injury.	[6]
Q4[A] Write a short note on "Starvation".	[6]
[B] Define Hanging, its types and its postmortem appearance.	
OR	[6]
·	167
[B] Explain in detail about signs of "Live birth" in detail.	[6]
Q5[A] Write a note on changes after death.	[6]
[B] Write down the rules for Postmortem examination.	[6]
OR	
[B] Write a note on Sexual Offences and explain any one.	[6]
Q6[A] Draw the structure of teeth and explain various diseases of teeth.	[6]
[B] Classify Human Skeletal System.	[6]
OR	[o]
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[B] Write down the sex determination features from skull.	[6]
DEST OF LUCK	



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Q-1 Multiple Choice Questions:	: 	(08)
1. IEC stands for (A) International electro-tech (B)International E-learning control (C) International electro-tech (D)International effective control	ommission nical committee	
2. is outside the scope of I (A) Health & safety requirem (C) Certification		
3. APLAC Stands for (A) Asia Pacific Laboratory A (B) Asia Pacific Laboratory A (C) Asia Provide Laboratory (D) America Particular Laboratory	Accreditation Coop According Commi	eration ttee
4. Ethical norms in research do NOT (A) Data sharing Policies (C) Thesis Format		ight
5. "Male & female students performindicates a	n equally well in a	numerical aptitude test". This statement
(A) Null hypothesis	(B) directi	onal hypothesis

(C) Statistical hypothesis

(D) research hypothesis

6. Which of the following organizations deals with 'capacity building program' on education planning?

(A) NCERT

(B) UGC

(C) NAAC

(D) NUEPA

7. The research stream of immediate application is

(A) Conceptual research

(B) Fundamental research

(C) Action research

(D) Empirical research

8. The sequential operations in scientific research are

- (A) Co-variation, Elimination of Spurious Relations, Generalisation, Theorisation
- (B) Generalisation, Co-Variation, Theorisation, Elimination of Spurious Relations
- (C) Theorisation, Generalisation, Elimination of Spurious Relations, Co-variation
- (D) Elimination of Spurious Relations, Theorisation, Generalisation, Co-variation

(P.T.O)



Q-2 Answer in Brief: (Attempt any 7)
1) Define cross- examination.
2) Write a short notes on Subcontracting of Calibration or Testing.
3) Define accommodation.
4) Write down the Preventive action taken in Laboratory.
5) Write characteristics of good teaching.
6) Write a short notes on Evaluation systems.
7) What do you mean by Fundamental research?
8) Explain non-directional hypothesis
9) Define Research and mention some Important Research lab situated in India for
Forensic Science Field.
Q-3(A) Write down the Information that should be included in report writing.
(B) Write in detail about Quality system, Audit and Review done at CFSL.
OR
(B) Explain Ethics in Forensic science and its dilemma's.
Q-4 (A) Explain Handling of Calibration and test items
(B) Explain Measurement Traceability and calibration.
OR
(B) What are the point one should keep in mind for opening new Laboratory.
Q-5(A) Explain Principle, Classification and Importance of audio-visual Aids
(B) Explain Teaching methods and its types.
OR
(B)Explain in details about teaching skill according to Allen & Ryan.
Q-6 (A) Explain Research Ethics.
(B) Define workshop and write its objectives, characteristic and limitations.
OR
OK .