

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2022
FS3EL03 Criminalistics

Programme: B.Sc.(Hons.)

Branch/Specialisation: Forensic
Science

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Photography of crime scene used for- **1**
(a) To locate evidences
(b) To Measure the area of scene
(c) To preserve the crime scene
(d) To collect data from crime scene
- ii. "Expert" defined in the following section- **1**
(a) 45 Indian Evidence Act
(b) 45 Indian Penal Code
(c) 45 Criminal Procedure Code
(d) All of these
- iii. Assertion (A): Blood stains on cloth should be collected after drying in shade under room temperature. **1**
Reason (R): It causes disintegration of blood stain.
(a) Both (A) and (R) are correct.
(b) Both (A) and (R) are incorrect.
(c) (A) is correct but (R) is incorrect.
(d) (A) is incorrect but (R) is correct
- iv. In an aircrash case, the following method of survey is most useful- **1**
(a) Wheel method (b) Strip method
(c) Spiral method (d) Zone method
- v. The following is a regenerated fibre- **1**
(a) Silk (b) Cotton (c) Rayon (d) Nylon

P.T.O.

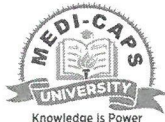
[2]

vi.	Assertion (A): while despatching the exhibit to FSL the sample of the seal used on packed exhibits is also despatched along with exhibits. Reason (R): It helps in ascertaining the chain of custody. (a) Both (A) and (R) are correct. (b) Both (A) and (R) are incorrect. (c) (A) is correct but (R) is incorrect. (d) (A) is incorrect but (R) is correct.	1
vii.	The scale of hair can be preserved with the help of- (a) Wax cast (b) Plaster of paris (c) Plasticine (d) Nail polish	1
viii.	The stamped serial number on barrel can be restored by- (a) Hydrofluoric reagent (b) FeCl ₃ reagent (c) CuCl ₂ reagent (d) AgCl reagent	1
ix.	Which of the following fibre is of mineral origin? (a) Mohair (b) Cashmere (c) Asbestos (d) Rayon	1
x.	The refractive index of glass can be determined by- I. Beckeline method II. Abbe's refractometer III. GRIM IV. Pulfrich refractometer Code: (a) I and II only (b) III and IV only (c) I and III only (d) II and IV only	1
Q.2	i. What is criminalistics? ii. Explain crime scene and its types. iii. Explain safety measures at crime scene and its importance.	2 3 5
OR	iv. Describe crime scene search methods and its types.	5
Q.3	i. What is crime scene logs and its need in crime scene investigation? ii. Explain evaluation of 5Ws and 1H? with example.	4 6
OR	iii. What is documentation of crime scene? Write down different methods of documentation of crime scene.	6

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Q.4	i. Write down different types of collection technique of physical evidence. ii. What is evidence? Describe different types of evidence according to Indian Evidence Act.	3 7
OR	iii. Explain reconstruction of crime scene in detail.	7
Q.5	i. Write down types of fibre evidence and how it helps in investigation. ii. Describe tool marks and explain different methods for examination of tool marks.	4 6
OR	iii. What is gemmology? Write down different methods for examination of gems.	6
Q.6	Attempt any two: i. Explain glass fractures with detailed diagram. And forensic importance of glass evidence. ii. Write down analysis of fibre evidence. iii. Describe different techniques of restoration of erased serial number and engraved marks.	5 5 5

Scheme of Marking

	Faculty of Science End Sem (Odd) Examination Dec-2022 Criminalistics (FS3EL03) Programme: B.Sc. Branch/Specialisation:	
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Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	To preserve the crime scene	1
	ii)	45 Indian Evidence Act	1
	iii)	(A) is correct but (R) is incorrect	1
	iv)	Wheel method	1
	v)	Rayon	1
	vi)	Both (A) and (R) are correct	1
	vii)	Nail polish	1
	viii)	CuCl ₂ reagent	1
	ix)	Asbestos	1
	x)	A. and C. only	1
Q.2	i.	Definition- 2 marks	2
	ii.	Definition of crime scene-1mark Types of crime scene- 2 mark	3
	iii.	6 safety measures- 3 marks 4 importance of safety measures- 2 marks	5
OR	iv.	Introduction of crime search method- 1mark Types of search methods with diagram- 4 marks	5
Q.3	i.	Introduction of crime scene log- 2 marks Need of crime scene logs- 2 marks	4
	ii.	Each point- 1 mark (6)	6
OR	iii.	Definition- 2 mark Types- 1 mark each (4)	6
Q.4	i.	Technique- 0.5 marks each (3)	3
	ii.	Definition- 2 marks	7

		Type of evidence with explanation - 0.5 marks each (5)	
OR	iii.	Introduction- 2 mark Reconstruction with explanation- 0.5 mark each step (5)	7
Q.5	i.	types of fibre- 2 marks importance of fibre evidence- 2 mark	4
	ii.	Introduction of tool mark- 1 mark Method with detail- 1mark each (5)	6
OR	iii.	Definition-1 Method with detail- 1 mark each (5)	6
Q.6	i.	Types with detailed diagram- 1 marks each (3) Importance of glass evidence 0.5 mark each (2)	5
	ii.	Each technique- 1 mark (5)	5
	iii.	Each technique- 1 mark (5)	5
