1904N290

Candidate's Seat No	:
DORTL 2021.	

M.Sc Semester-2 Examination APRIL 2024

Forensic Science

FS-409 Forensic Physics

Ti	me: 2.30 Hrs] [Max]	Marks: 70
In	structions: Illustrate your answers with neat diagrams wherever necessary.	, ,
Que 1	Write the following	
(i)	Write a note on collection preservation and examination of fibres in fore investigations?	ensic (7 Marks)
(ii)	What is density gradient analysis explain in detail about the process with exan	nple. (7 Marks)
	OR	
(i)	Write a note on collection preservation and examination of paint samples in (7 Marks forensic investigations?	
(ii)	Explain in detail: Forensic examination of glass fractures.	(7 Marks)
Que 2	Write the following	
(i) (ii)	authentication in forensic audio analysis?	tape (7 Marks)
(11)	production in detain.	(7 Marks)
<i>(</i> :)	OR	
(i)	Discuss the limitations and challenges faced in speaker identification and tape (7 Marks) authentication.	
(ii)	Describe the factors influencing sound in speech production.	(7 Marks)
Que 3	Write the following	
(i)	Write a note on applications of Digital Image Processing	(7 Marks)
(ii)	Illustrate and explain how an angle is captured in DSLR	(7 Marks)
	OR	(**************************************
(i)	Write a note on Exposure Triangle	(7 Marks)
(ii)	How can you distinguish that Two images are from the same phone or not?	(7 Marks)
Que 4	Write the following	
(i)	What is Android? Explain in detail	(7 Marks)
(ii)	What is Cyber-crime? Explain any five types of cyber-crime in detail.	(7 Marks)
	OR	(/ iviains)
(i)	Write a note on android architecture	(7 Marks)
(ii)	Explain the steps of investigation of digital crime scene in detail.	(7 Marks)

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Que 5 Attempt any seven out of twelve

(14Marks)

- (i) Which techniques are used for elemental analysis of glass?
- (ii) Define Seal under Forgery Act.
- (iii) How many types of stamps are encountered in forensic investigations? Give examples.
- (iv) What does "Numismatic" mean?
- (v) How Forensic examination of wires and cables is performed?
- (vi) What is full form of-RADAR?
- (vii) Define Pixel and Fill Factor of an Image.
- (viii) What is the range of high, medium and low pitch voices?
- (ix) What is the difference between cyber security and digital forensic?
- (x) Explain: Phishing, vishing and smishing
- (xi) Define: bluebugging
- (xii) Name different types of OS.
