

PRN No.	
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PAPER CODE	V325-2104C CSE
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(AY:2024-25) May 2025 (ENDSEM) EXAM

TY (SEMESTER - II)
TY Pattern 2020 R1

COURSE NAME:
Digital Forensic and Cyber Security

Branch:
Information Technology

COURSE CODE: ITUA32204C

Time: [1Hr 30 Min]

[Max. Marks: 40]

Instructions to candidates:

- 1) Figures to the right indicate full marks. Use of scientific calculator is allowed
- 2) Use suitable data wherever required
- 3) All questions are compulsory. Solve any two sub question each from Questions 1 , 2 ,3 and 4

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain the purpose of digital forensic. Discuss any three forensic branches, where the digitization help to investigate crime.	[5]	1	2
	b) Comment on "Locard exchange principle" with the case study. Apply the five steps of investigation.	[5]	1	3
	c) Discuss the importance of primary evidence over the secondary evidence. How the. Court of law considers the evidence in case if fight between two persons resulted in death of one person.	[5]	1	2
Q2	a) Solve the example for encrypt of plaintext 2 using the RSA public-key encryption algorithm. It uses prime numbers 5 and 7 to generate the public and private keys. Get the plain text 2 at receiver side.	[5]	2	3
	b) Explain the advanced encryption standard(AES) with flowchart & the working of different stages in AES.	[5].	2	2
	c) Discuss the working of message digest in transmitting the message and the recipient will check the integrity of message.	[5]	2	2
Q3	a) Consider the evidence contains the PDF file having Aadhaar card and how to recover that Aadhaar card by using the FTK imager.	[5]	3	4
	b) Consider from crime scene you found the live laptop, you want to check the content of Random access memory. By	[5]	3	4

	using the Memory RAM capture tool explain how you will find the data.			
	c) Consider from crime scene the pendrive you found attached to system. Find the contents of pendrive using the Recoverit tool in 3 steps.	[5]	3	4
Q4	a) Discuss the Section 65 Tampering with computer source document with case study and comment on the punishment is it sufficient or to increase, please suggest.	[5]	4	4
	b) Illustrate the section 67 Punishment for publishing or transmitting obscene material in electronic form in detail with case study. Comment of on the punishment.	[5]	4	4
	c) Today there is various sites to create the relationship between the people like tinder, bumble, hinge etc. Comment is it is safe or not safe by your perspective. If it not safe then what you suggest to be safe on this social sites.	[5]	4	4

[@Note:- 1: Remember,2:Understand,3:Apply,4:Analyze,5:Evaluate,6:Create]