

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: U8402

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Computer Science and Engineering

21ITV402 - DIGITAL AND MOBILE FORENSICS

(Common to IT,CSD & CSE(AI&ML))

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Differentiate between live and dead systems in the identification phase. CO1 - U
2. Compare digital evidence and trace evidence. CO1 - U
3. What is repeated search in danish procedural law? CO1 - U
4. Differentiate search and seizure. CO1- U
5. Define RACI matrix. CO1- U
6. Compare validation and verification. CO1- U
7. Define jailbreaking in iOS forensics. CO1- U
8. Define the terms iCloud and iOS. CO1- U
9. List out the various ADB commands. CO1- U
10. Summarize the purpose of the dual use tools. CO1- U

PART – B (5 x 16= 80 Marks)

11. (a) You are involved in the analysis phase of an investigation of a cyber-attack. All potentially relevant data objects have been collected and examined. In order to proceed, what do you need to ensure with regard to the evidence integrity? How will you do this, and why? CO2- App (16)

Or

- (b) A bank has registered an incident, and it has been reported to a national financial crime agency in which you are working. Imagine that you, as a digital forensics investigator, are engaged to investigate the online banking fraud case. Describe how you would go about solving the case, finally presenting the evidence to a court of law and to the bank executives. CO2- App (16)
12. (a) Explain the various international cooperation is needed to collect digital evidence. CO1- U (16)
- Or
- (b) Explain the various general conditions for criminal liability in substantive criminal law. CO1- U (16)
13. (a) Explain the various methodologies to follow during digital forensics investigation process. CO1 - U (16)
- Or
- (b) Explain the standardization bodies and List out the standards that relate to the digital forensic investigation process. CO1- U (16)
14. (a) Explain the oxygen forensics in iOS forensics. CO1 –U (16)
- Or
- (b) Briefly explain the iPhone security in iOS forensics. CO1-U (16)
15. (a) Briefly explain the android forensics procedures with example. CO1- U (16)
- Or
- (b) Explain in detail about how the understanding of file systems plays a crucial role in mobile forensics. CO1- U (16)