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Question Paper Code: U8402

B.E./B.Tech. DEGREE EXAMINATION, NOV 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. How can digital forensics be used in criminal investigations? CO1 - U
2. Define evidence integrity. CO1 - U
3. Differentiate between search and seizure. CO1 - U
4. List out the various investigation methods for collecting digital evidence. CO1 - U
5. What is meant by digital forensic readiness? CO1 - U
6. Mention the roles in digital forensic investigation. CO1 - U
7. Define Dr.Fone. CO1 - U
8. Explain the term Ulldata. CO1 - U
9. List out various level of mobile forensics Pyramid. CO1 - U
10. Define autopsy in android forensic. CO1 - U

PART – B (5 x 16= 80 Marks)

11. (a) Consider city ABC. A murder occurred in it. There is various evidence that can be collected for Investigation. Apply the various Investigation methods and collect the various Digital Evidence that are available and also give statement what are the digital evidence can be collected in the spot of murder. 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) Let's consider a use case involving a charge of robbery, which is a substantive criminal law offense. Write the steps to illustrate the application of the law in a real-world scenario. CO2- App (16)
- Or
- (b) Let's consider a use case involving an Air Bus hijacked by Terrorist. Which is a substantive criminal law offense. Write the steps to illustrate the application of the law in a real-world scenario. CO2- App (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) A non-technical police officer calls in from a scene of crime during a search. The search team has found several phones, one is on, and they want to know how to handle these. What are your recommendations? How will your assumptions affect your advice, and can new information from the search team change or improve your advice? CO2- App (16)
- Or
- (b) A man has been arrested by the crime branch of police for allegedly sending threatening text messages to the business man. The accused sent four messages to the business man, threatening to kill his children if he did not pay him, say sources. How to do mobile devices forensics on this case? CO2- App (16)