

19 JUN 2023

Reg. No.

Question Paper Code

11917

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023

Sixth Semester

Computer Science and Engineering

20CSEL502 - CYBER FORENSICS

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|--|-------------------------------|
| 1. Differentiate 'Cyber Forensics' and 'Cyber Crimes'. | 2,K2,CO1 |
| 2. Define RAID Data Acquisition. | 2,K1,CO1 |
| 3. Differentiate Master Boot Record(MBR) and Master File Table(MFT). | 2,K2,CO2 |
| 4. List the role of "Virtual Cluster Number". | 2,K1,CO2 |
| 5. Classify the Compression techniques used in Computer Forensics. | 2,K2,CO3 |
| 6. Define Network Forensics. | 2,K1,CO3 |
| 7. What is defense in depth? | 2,K1,CO4 |
| 8. Explain footprinting using Google. | 2,K2,CO4 |
| 9. Interpret the goal of a Denial of Service attack. | 2,K2,CO5 |
| 10. List the purpose of Web Application Penetration Testing. | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Summarize in detail about Incident Response Methodology and the six steps associated with it. 13,K2,CO1
- OR**
- b) Describe a plan to get different types data using windows data acquisition tool and determine the contingency planning for image Acquisition. 13,K2,CO1
12. a) List the steps involved in examining NTFS disks and explain. 13,K1,CO2
- OR**
- b) Explain briefly about the RAID architecture and its types associated with the acquisition structure. 13,K2,CO2
13. a) Describe in detail about the steps involved in securing a network. 13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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OR

- b) Explain in detail about validating and testing Forensics Software. *13,K2,CO3*
14. a) What are the different attack vectors through which the attacker can attack information system? Explain. *13,K1,CO4*

OR

- b) How can image, text, audio and video steganography be detected? Discuss. *13,K2,CO4*
15. a) Explain the Motive behind Brute Force Attacks. *13,K2,CO5*

OR

- b) Discuss any three Common methods used in Ethical hacking. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain Man- in the Middle Attack. *15,K2,CO6*

OR

- b) Discuss Phishing Attack and Injection Attacks in detail. *15,K2,CO6*