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Question Paper Code	13937
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025
 Seventh Semester
Computer Science and Engineering
20CSEL708 - IT SECURITY COMPLIANCE AND FORENSICS
 Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. LDAP stands for (a) Lightweight Directory Access Protocol (b) Long Directory Access Path (c) Local Directory Authentication Protocol (d) Linux Directory Application Protocol	1	K1	CO1
2. Non-repudiation ensures (a) Availability of services (b) Users can deny their actions (c) Users cannot deny their actions (d) Confidential communication	1	K1	CO1
3. What does a DMZ in network security refer to? (a) Internal encrypted area (b) Public guest network (c) De-Militarized Zone (d) Digital Masked Zone	1	K1	CO2
4. What is the role of SSL in secure communications? (a) To increase speed (b) To filter spam (c) To authenticate and encrypt data (d) To assign IP addresses	1	K1	CO2
5. Which server manages user authentication in a Windows network? (a) File Server (b) Domain Controller (c) Print Server (d) Web Server	1	K1	CO3
6. DMARC is related to (a) DNS security (b) Email authentication (c) File sharing (d) Printing	1	K1	CO3
7. Why is check pointing used? (a) Save system state for recovery (b) Encrypt backup data (c) Archive logs (d) Monitor bandwidth	1	K1	CO4
8. Which backup type copies all files regardless of last changes? (a) Full backup (b) Incremental (c) Differential (d) Snapshot	1	K1	CO4
9. Which of the following is NOT a security compliance standard? (a) ISO/IEC 27001 (b) HIPAA (c) PCI-DSS (d) HTML5	1	K1	CO5
10. Which process ensures that all software remains up-to-date with the latest patches? (a) Logging (b) Updating (c) Auditing (d) Monitoring	1	K1	CO6

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

11. Define confidentiality with an example.	2	K1	CO1
12. State any two differences between authentication and authorization.	2	K1	CO1
13. What is a firewall?	2	K1	CO2
14. List any two encryption protocols used in data transmission.	2	K1	CO2
15. Define server hardening with example.	2	K1	CO3
16. Recall the advantages of using VPN.	2	K1	CO3
17. Find any two advantages of cloud backup.	2	K1	CO4
18. Differentiate between RTO and RPO.	2	K2	CO4
19. Infer the term Information System Strategy.	2	K2	CO5
20. Outline the link between disaster recovery and security compliance.	2	K2	CO5
21. Define audit.	2	K1	CO6

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

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22. Illustrate about secure remote administration. 2 K2 CO6

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

23. a) Discuss the components of the CIA triad in detail. 11 K2 CO1

OR

b) Compare access control implementation in Windows and Unix environment. 11 K2 CO1

24. a) Discuss any five common vulnerabilities found in computer network systems and their consequences. 11 K2 CO2

OR

b) Illustrate the importance of analyzing traffic patterns for identifying security breaches. 11 K2 CO2

25. a) Build the concept of baseline security. Develop the steps to secure different types of servers. 11 K3 CO3

OR

b) Construct the methods of securing network infrastructure servers with examples. 11 K3 CO3

26. a) Illustrate fault tolerance techniques in hardware and software. 11 K2 CO4

OR

b) Interpret about hot backup and cold backup in a detailed manner. 11 K2 CO4

27. a) Construct a basic auditing process for checking security policies in an organization. 11 K3 CO5

OR

b) Build a simple plan to integrate security in an educational institution. 11 K3 CO5

28. a) Examine a security architecture that uses honey pots and IDS for protecting a university network. 11 K4 CO6

OR

b) Analyze the importance of managing updates and patch management with examples. 11 K4 CO6