



End Term (Odd) Semester Examination November 2025

Roll no. 2361971

Name of the Course and semester: B.Tech (CSE)

Name of the Paper: **Security Audit and Compliance-I**

Paper Code: TCS 595

Time: 3 hour

Maximum Marks: 100

Note:

- (i) All the questions are compulsory.
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

Q1. (2X10=20 Marks) **CO-1**

- a. Explain in detail what do you mean by Rogue Software and Scareware. Write the name of two popular scareware
- b. What are the main types of online reputation attacks, and how can they impact an organization's credibility and customer trust? Provide real-world examples of such attacks
- c. Describe the concept of cyber stalking and discuss the legal and technical measures that can be taken to protect individuals from cyber stalkers.

Q2. (2X10=20 Marks) **CO-2**

- a. How do cyber laws in India protect individuals and organizations against cyber threats?
- b. What are the main objectives of ISO/IEC 27001, and how does this standard help organizations improve their information security management system?
- c. Explain about the following Standards
 - 1. HIPAA
 - 2. GDPR

referred
visual

Q3. (2X10=20 Marks) **CO-3**

- a. Explain the difference between authentication and authorization in the context of access control. Provide examples of each in a real-world system
- b. Compare and contrast the following user authentication methods: passwords, biometrics, and multi-factor authentication. Discuss the strengths and weaknesses of each method
- c. What is Role-Based Access Control (RBAC)? Describe how RBAC is implemented in an organization and explain its advantages over traditional discretionary access control

Plan
do
check
act

Q4. (2X10=20 Marks) **CO-4**

- a. Explain the key stages of the data lifecycle, state the importance of each stage.
- b. What are audit trails and logs in a database system? Discuss their role in compliance and forensic investigations
- c. Explain the importance of secure backup and recovery procedures in database management



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Q5.

(2X10=20 Marks) CO-5

- a. Explain the primary functions of Database Activity Monitoring (DAM) and how it helps enhance database security
- b. Outline the typical phases of Database Vulnerability Assessment and Penetration Testing. Why is this process critical for organizational security
- c. Discuss how security scanning tools contribute to identifying and remediating database vulnerabilities. Mention any two popular tools.