



R17 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1E7EB

B.Tech IV Year I Semester Supplementary Examinations, January 2023

INFORMATION SECURITY ASSESSMENTS AND AUDITS

(CSE)

Maximum Marks: 70

18-01-2023

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What are Information Security Performance Metrics?
- 2 Why security Audits are needed?
- 3 Mention Pre-audit checklist?
- 4 What are Post Auditing Actions?
- 5 How to manage information Security Vulnerabilities?
- 6 Define Remediation?
- 7 How Information Security Assessment is done?
- 8 What is Risk Treatment?
- 9 What is Configuration Reviews?
- 10 What is Configuration Control Policy?

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 a) Explain common issues and variances of Performance Metrics? [5]
b) What are the ethics of an information security Auditor? [5]
OR
- 12 a) Discuss phases of information security Audit and Strategies? [5]
b) Explain information security Methodologies? [5]
- 13 a) Explain internal Network Security Audit? [5]
b) Write a note on Information Security Audit Deliverables and Writing Report? [5]
OR
- 14 a) Discuss IDS Security Auditing? [5]
b) Write short notes on Result Analysis and Report Relation? [5]
- 15 a) Discuss Human-based Social Engineering? [5]
b) Write a note on Threat Management? [5]
OR
- 16 a) Discuss Computer-based Social Engineering? [5]
b) Explain the steps for Vulnerability Management? [5]
- 17 a) Discuss Classification and types of Vulnerability Assessment? [5]
b) What are the Characteristics of a good Vulnerability Assessment Solutions? [5]
OR

- 18 a) Discuss Information Security Risk Assessment? [5]
b) What are the Vulnerability Analysis stages? [5]
- 19 a) Discuss The Four Basic Requirements for an SCM System? [5]
b) How Configuration Control Policy is made? [5]
- OR
- 20 a) What is SCM and explain its main phases? [5]
b) How SCM is tested? [5]