CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Regular) - November- 2024
INFORMATION SECURITY ASSESSMENT AND AUDIT
(CSM)

[Time: 3 Hours]   [Max. Marks: 70]

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

PART-A   (20 Marks)

1. a) Make a comparison between the White-box and Grey-box Information security methodologies [2M]
   b) Define the scope of NOS 9003. [2M]
   c) Explain about internal security auditing tools [2M]
   d) Differentiate between the Internal Security Audit and External Security Audit [2M]
   e) What is dumpster diving? [2M]
   f) List out the threats in security assessment. [2M]
   g) Define risk identification [2M]
   h) List the types of vulnerability assessment. [2M]
   i) Define baseline configuration [2M]
   j) What are activities of Configuration Management. [2M]

PART-B   (50 Marks)

2. Describe in detail the various phases of Information Security Audit and Strategies [10M]

OR

3. a) Explain in detail about Servers and Storage Devices. [5 M]
   b) Describe in detail about the Infrastructure, Networks and Communication route [5 M]

4. a) Explain in detail about Firewall Security Audit [5 M]
   b) Define Pre-Audit checklist? Explain about post auditing actions [5 M]

OR

5. Briefly explain the social engineering security auditing. [10M]

6. a) Give examples of information security vulnerabilities. [5 M]
   b) Explain remediation phase of vulnerability management process [5 M]

OR

7. Explain the concept of computer-based social engineering. [10M]

8. a) Write the classification vulnerability assessment [5 M]
   b) Describe in detail about the information security risk assessment [5 M]

OR

9. Explain Characteristics of a Good Vulnerability Assessment Solutions & Considerations [10M]

10. Explain various steps taken for development of Configuration Control Policies [10M]

OR

11. What is Configuration Management? Explain in detail various parts of Configuration Management [10M]

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