

CBCS SCHEME

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18IC732

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024

Advanced Cyber Security

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain in brief how browser encrypts the data in a network. (10 Marks)
b. Explain in detail about virtual private network with its architecture. (10 Marks)

OR

- 2 a. What is Network address translation? Explain with help of diagram. (10 Marks)
b. What are the goals, strengths and limitations of Intrusion Detection system in detail? (10 Marks)

Module-2

- 3 a. Explain in detail about Two-phase update technique with example. (10 Marks)
b. List and explain several factors that make data sensitive. (10 Marks)

OR

- 4 a. State and explain how precision plays a major role in order to provide security to data. (10 Marks)
b. Explain in detail about how data is disclosed in various ways. (10 Marks)

Module-3

- 5 a. How to assess the cloud service provider? How to choose the cloud model? (10 Marks)
b. How to provide cloud application security against the threats. (10 Marks)

OR

- 6 a. Describe about Security Assertion Markup Language (SAML) and its authentication process. (10 Marks)
b. Explain in detail about OAuth2 authorization with help of flowchart and also state its roles. (10 Marks)

Module-4

- 7 a. Describe in detail about the information privacy aspects such as sensitive data, affected parties and controlled disclosures with example. (10 Marks)
b. State and explain the set of principles of fair information practice. (10 Marks)

OR

- 8 a. State and explain different ways to maintain security and privacy for Email. (10 Marks)
b. Explain with an example how data is preserved and privacy is maintained while mining data. (10 Marks)

Module-5

- 9 a. Define security plan? What are the contents of a security plan describe in detail. (10 Marks)
b. What is an Incident? How to handle incidents and write a response plan against the incident, explain with its phases. (10 Marks)

OR

- 10 a. Describe in detail about advantages and disadvantages of risk analysis. (10 Marks)
b. Explain in detail how to protect the data from natural disasters with examples. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.