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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)