5/01/2024

[Max Marks: 80]

Duration: 3hrs

NB:
(1) Question No.1 is Compulsory
(2) Attempt any three questions out of remaining five.
(3) All questions carry equal marks
(4) Assume suitable data, if required and state it clearly.

[20]

1. Attempt **any FOUR**
    a. Discuss CIA Triad in Information Security.
    b. Explain concept of High Availability.
    c. Illustrate various XSS attacks
    d. Explain Information Security issues in Cloud computing
    e. Explain various threats to Access Control.

2. a. Describe Risk assessment techniques outlined in ISO31010 framework.   [10]
    b. Define Intrusion Detection System. Explain in detail IDS techniques.   [10]

3. a. Explain Availability, Mean Time Between Failure (MTBF), Mean Time to Repair
       (MTTR), and Calculate the Availability for a product has MTBF of 200hrs and   [10]
       MTTR of 10 hrs.   [10]
    b. Explain in detail COBIT Framework.

4. a. Describe various Disaster Recovery Techniques.   [10]
    b. Explain any two different Access Control Models from the following.   [10]
           a. Discretionary,
           b. Mandatory,
           c. Role based
           d. Rule-based.

5. a. Compare the quantitative and qualitative risk assessment approaches.   [10]
    b. Explain various types of Audits in Windows Environment.   [10]

6. a. What are the key characteristics of OCTAVE approach?   [10]
    b. What are the objectives of IT ACT? Explain in detail IT ACT 2000 and IT   [10]
       ACT 2008.

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