51N2304

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B.TECH. V SEMESTER (NEW SCHEME)
MAIN/BACK EXAMINATION 2024-25
COMPUTER SCIENCE & ENGINEERING
(CYBER SECURITY)
(5CY4-04) - Information Security Management

Time : 3 Hours]

[Max. Marks : 70

[Min. Passing Marks :

Instructions to Candidates :

Part-A : Short Answer Type Questions (up to 25 words) 10 × 2 = 20 marks. All 10 questions are compulsory.

Part-B : Analytical/Problem Solving questions 5 × 4 = 20 marks. Candidates have to answer 5 questions out of 7.

Part-C : Descriptive/Analytical/Problem Solving questions 3 × 10 marks = 30 marks. Candidates have to answer 3 questions out of 5.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/ calculated must be stated clearly.

Use of the following supporting materials is permitted during examination. (Mentioned in form no. 205).

1_____Nil_____

2_____Nil_____

B-428

(1)

Part-A

Q. 1. What are Risk Evaluation and Risk treatment ?

Q. 2. Discuss ITU-T security document.

Q. 3. Explain information security.

Q. 4. Explain security management.

Q. 5. Define the term security policy and risk analysis.

Q. 6. What is the objective of information security management ?

Q. 7. State the relationship between security governance and security management.

Q. 8. What is Risk assessment concepts ?

Q. 9. Explain the following term Acceptable use policy and physical asset management..

Q. 10. Explain the following :

    (a)   Good practice for information security

    (b)   Risk evaluation

Part-B

Q. 1. What are security governance ? Explain security management in details.

Q. 2. What are the functions of CIS critical security controls ?

Q. 3. What are the five principal services provided by PGP ?

Q. 4. What is the security governance components ? Explain in detail.

Q. 5. What do you mean by System assessment approaches.

Q. 6. Difference between Risk analysis and Risk evaluation.

Q. 7. What is Vulnerability identification and consequences identification ? Explain each term in detail with the help of example.

Part-C

Q. 1. What is human resource security and security awareness in education ? Also, explain security management function.

Q. 2. Discuss acceptable use policy and security management in detail.

Q. 3. What is sensitive physical information ? Explain security awareness and education in detail.

Q. 4. Discuss Payment Card Industry Data Security Standard. What are COBIT-5 for information security ?

Q. 5. Write short note on the following :

    (a) Hardware life cycle management

    (b) Office equipment

    (c) Information handling

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