



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2023
SET 1

Course: IT Security Management
Program: MBA DB
Course Code: CSEG 8002

Semester: IV
Time : 03 hrs.

Max. Marks: 100

Instructions:

SECTION A
10Qx2M=20Marks

| S. No. | | Marks | CO |
|--------|---|-------|-----|
| Q 1 | Attempt all questions. Mention True / false | | |
| A. | According to the SANS Institute, the top vectors for vulnerabilities available to a cyber criminal are: Web Browser IM Clients Web Applications Excessive User Rights | 2 | CO1 |
| B | When the program is executed, the virus does not activate and replicates itself. Human intervention is required. | 2 | CO1 |
| C | Worms are Independent program that replicates itself and sends copies from computer to computer across network connections. | 2 | CO1 |
| D | Social Engineering manipulates people into performing actions or divulging confidential information. | 2 | CO1 |
| E | A rootkit is a number of compromised computers used to create and send spam or viruses or flood a network with messages as a denial of service attack. | 2 | CO1 |
| F | Encryption is the practice of encapsulating messages so that they can be read by anyone other than the intended recipient | 2 | CO1 |
| G | Asymmetric encryption is a type of encryption where only one key (a secret key) is used to both encrypt and decrypt electronic data. | 2 | CO1 |
| H | Block and Stream Algorithms are used for symmetric encryption | 2 | CO1 |

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|---|---|----|-----|
| I | NIDS is implemented in the form of a device or software that monitors all traffic passing through a strategic point in the network for malicious activities | 2 | CO1 |
| J | Signature-based systems - These systems are also known as misuse intrusion detection | 2 | CO1 |
| SECTION B 4Qx5M= 20 Marks | | | |
| | Attempt any four questions | | |
| Q 2 | What is Symmetric and Asymmetric encryption | 5 | CO2 |
| Q3. | Why Contingency Planning in terms of IT security management is important? | 5 | CO2 |
| Q4. | What is Enterprise InfoSec Policy (EISP) | 5 | CO2 |
| Q5 | Why encryption is required as IT Security | 5 | CO2 |
| Q6 | What is DoS | 5 | CO2 |
| SECTION-C 3Qx10M=30 Marks | | | |
| | Attempt any three questions | | |
| Q7 | For an organization having IT security in the current business scenario is inevitable. Explain with relevant justification | 10 | CO3 |
| Q8 | NIDS should be deployed with appropriate goals, mention the same in the context of organization | 10 | CO3 |
| Q9 | Explain the Bulls eyes model for IT Policies | 10 | CO3 |
| Q 10 | What steps would you take as manager to conduct Business Impact Analysis? | 10 | CO3 |
| SECTION-D 2Qx15M= 30 Marks | | | |
| Q | Attempt all the question | | |
| Q 12 | You as IT manager have been given the responsibility contingency plan for the organization. Create the plan with the relevant components. | 15 | CO4 |
| Q 13 | Frame and explain the various authentication measures for a company that has highly sensitive data and processes | 15 | CO4 |