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MBA
(SEM III) THEORY EXAMINATION 2021-22
CYBER SECURITY

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief.** **2 x 10 = 20**
- What are the components of Information System Model?
 - List out the 5 software development models used for developing software.
 - What do you understand by CIA in Cyber Security?
 - List out the different categories of security attacks.
 - Explain computer worms.
 - Explain masquerading.
 - Explain the purpose of credit card.
 - Why do we sign the document?
 - How encryption technique works?
 - List out the different stages of Information System Model.

SECTION B

- 2. Attempt any three of the following:** **10 x 3 = 30**
- Explain the functioning of IPO Cycle with diagram for explain the working of Information System.
 - When may Waterfall Model not become useful? Justify your answer with suitable example while explaining the different stages of it.
 - Explain the use of Prototype Model. Also explain the stages of development involved in Prototype Model
 - Briefly explain any four mechanisms for owning the VPN solution. Also explain Security concerns related to VPN.
 - Explain the key points involved while selecting the data archival solution. Justify your answer with example.

SECTION C

- 3. Attempt any one part of the following:** **10 x 1 = 10**
- Explain the understanding of Information System Model required in the context of Computer Literacy with suitable example.
 - What are the vulnerabilities related to VPN? Also explain the benefits of VPN.
- 4. Attempt any one part of the following:** **10 x 1 = 10**
- Explain the mechanism of implementing the concept of digital signature.
 - Differentiate the Public and Private Encryption Techniques with diagrammatic explanation.
- 5. Attempt any one part of the following:** **10 x 1 = 10**
- What are the different types of Information System? Discuss each of it in detail.
 - Explain the stages of Spiral Model with example and diagram.
- 6. Attempt any one part of the following:** **10 x 1 = 10**
- What do you understand by Information Security Governance and Risk Management? Explain the activities involved in Risk Management Process.
 - Explain the categories of intellectual properties in India. Explain the features of Indian Copyright Act.
- 7. Attempt any one part of the following:** **10 x 1 = 10**
- Why is cybercrime increasing day by day? Explain the features of IT Act 2000
 - Explain the three-dimensional model of Information Assurance. Also explain the role of people in Information Assurance.