Subject Code: AUC002

PAPER ID-410025

Roll No: | | | | | | | | | | | | | |

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

a. What are the components of Information System Model?
b. List out the 5 software development models used for developing software.
c. What do you understand by CIA in Cyber Security?
d. List out the different categories of security attacks.
e. Explain computer worms.
f. Explain masquerading.
g. Explain the purpose of credit card.
h. Why do we sign the document?
i. How encryption technique works?
j. List out the different stages of Information System Model.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Explain the functioning of IPO Cycle with diagram for explain the working of Information System.
b. When may Waterfall Model not become useful? Justify your answer with suitable example while explaining the different stages of it.
c. Explain the use of Prototype Model. Also explain the stages of development involved in Prototype Model
d. Briefly explain any four mechanisms for owning the VPN solution. Also explain Security concerns related to VPN.
e. 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

(a) Explain the understanding of Information System Model required in the context of Computer Literacy with suitable example.
(b) 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

(a) Explain the mechanism of implementing the concept of digital signature.
(b) Differentiate the Public and Private Encryption Techniques with diagrammatic explanation.

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) What are the different types of Information System? Discuss each of it in detail.
(b) Explain the stages of Spiral Model with example and diagram.

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) What do you understand by Information Security Governance and Risk Management? Explain the activities involved in Risk Management Process.
(b) 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

(a) Why is cybercrime increasing day by day? Explain the features of IT Act 2000
(b) Explain the three-dimensional model of Information Assurance. Also explain the role of people in Information Assurance.

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