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MCA
(SEM III) THEORY EXAMINATION 2020-21
CYBER SECURITY

Time: 3 Hours**Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 7 = 14**

a.	Define the terms data and information.
b.	Differentiate between Information Assurance and information Security.
c.	Define Active and Passive Attacks .
d.	What do you mean by spyware ?
e.	Define the terms cryptography and cryptography .
f.	What do you mean by Ethical Hacking ?
g.	Define the term Software Licensing .

SECTION B**2. Attempt any three of the following:****7 x 3 = 21**

a.	What is Information System ? What are the different types of Information System ?
b.	Briefly explain security risk analysis.
c.	Explain briefly the process of developing secure information system .
d.	Explain Security Architecture & design.
e.	What is Cyber Law ? Define IT Act 2000 and explain its significance.

SECTION C**3. Attempt any one part of the following:****7 x 1 = 7**

(a)	What do you mean by Threats ? What are various threats to information systems ?
(b)	What is Cyber Security ? Explain the concept of CIA Triad.

4. Attempt any one part of the following:**7 x 1 = 7**

(a)	What do you mean by E-Commerce? Briefly explain the principles of E-Commerce? Explain the various ethical issues related to e-commerce.
(b)	What do you mean by Physical Security ? Explain different physical security controls.

5. Attempt any one part of the following:**7 x 1 = 7**

(a)	What do you mean by Intrusion monitoring and detection (IDS) ? Define its goals. How does a signature based IDPS differ from a behavior based IDPS .
(b)	What is SDLC? Discuss different phases of SDLC in detail .

6. Attempt any one part of the following:**7 x 1 = 7**

(a)	What is Malicious Software ? What are the different types of malicious software.
(b)	What is Security Policy ? Briefly explain Internet Security policies.

7. Attempt any one part of the following:**7 x 1 = 7**

(a)	Describe the Intellectual Property Rights .
(b)	What do you mean by Cyber Crime ? Explain different type of Cyber Crimes.