MCA
(SEM II) THEORY EXAMINATION 2022-23
CYBER SECURITY

Time: 3 Hours   *Total Marks: 100*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt** *all* **questions in brief.**   **2 x 10 = 20**

   (a) Discuss Information System.
   (b) Explain VPN.
   (c) Explain sensitivity of data?
   (d) Explain the Security Policies.
   (e) Differentiate between Copyright and Patents.
   (f) Explain the needs of Information System.
   (g) Define firewall.
   (h) Explain the requirement of CCTV.
   (i) Why ethics are important for industry?
   (j) Explain theIntellectual Property.

SECTION B

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

   (a) Explain in detail the different types of approaches followed in developing Information Systems. Explain in detail.
   (b) Discuss Cyber Security. Explain some measures taken to ensure Cyber Security.
   (c) Explain the concept of Cryptography. Explain the concept of Public Key and Private Key.
   (d) Explain organizational security policies. Discuss their relevance in the current scenario.
   (e) Write the shorts notes on:
       (i) IT Act 2000
       (ii) Copyright Law

SECTION C

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

   (a) How do you classify Information System in general? Explain in detail.
   (b) Explain the difference between Qualitative and Quantitative Risk Analysis.

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

   (a) Explain cryptographic attacks? Explain in detail.
   (b) Write the short notes on:
       (i) Information Security Governance
       (ii) Risk Management

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

   (a)   Explain the term Software Piracy and Software Licensing? Explain in detail.

   (b)   Explain the different types of threats in an Information System.

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

   (a)   Explain the concept of Web Security. Also explain some Cyber Security tips.

   (b)   Explainthe advantages of VPN? How does the system works.

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

   (a)   Define the term SDLC. Explain different phases of SDLC.

   (b)   Explain the need of Information Security Policy. Explain the use of www policy.