

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 the Intellectual 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 short 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) Explain the advantages of VPN? How does the system work.

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.

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