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MIT (CS)-203

ADVANCED CYBER SECURITY TECHNIQUES

(MSCCS)

Examination, June 2025

Time : 2:00 Hrs.   Max. Marks : 70

Note :– This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

Long Answer Type Questions   2×19=38

Note :– Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Explain about any 8 types of cyber crimes.

2. What is phishing and how can it be prevented ?

3. Explain the concept of IDS (Intrusion Detection Systems) and IPS (Intrusion Prevention System).

4. What is Firewall and how does it work ?

5. What are the main differences between symmetric and asymmetric encryption ?

Section–B

Short Answer Type Questions   4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What are the key differences between HTTP and HTTPS ?

2. What is MiTM (Man-in-the-Middle) attack ?

3. What is Two-Factor Authentication (2FA) and why it is important ?

4. What is VPN and why it is used ?

5. Explain the concept of a secure password.

6. What steps would you take if you discovered a security breach ?

7. What is DDoS (Distributed Denial of Service) attack and how does it work ?

8. Explain the concept of a digital signature.

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