

A-1281

Total Pages : 3

Roll No.

MIT (CS)-203
(MSCCS)

Advanced Cyber Security Techniques

Examination February, 2026

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.

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(1)

P.T.O.

1. Discuss emerging threats to Cloud computing and Internet of Things
2. Discuss tools and communication methods used by hacker groups.
3. Discuss five common attacks possible on computer networks with an example.
4. What are the elements of cyber security ? Discuss each one in detail with proper example.
5. What does XSS stand for ? How can it be prevented ?

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 is the Three-way handshake ? Explain in detail with proper example.
2. What is Two-Factor Authentication (2FA) and why it is important ?
3. What are some common hashing functions ?

4. What do you mean by shoulder surfing ?
5. What are the main differences between hashing and encryption ?
6. Differentiate between information security and information assurance.
7. What are the steps involved in hacking a server or network ?
8. What is firewall ? Explain the types of firewall.
