

**P-854**

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Roll No. ....

## **MIT(CS)-203**

**Advance Cyber Security Techniques**

(MSCCS/PGDCS)

2nd Semester Examination, 2023 (June)

**Time : 2 Hours]**

**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 answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **SECTION–A**

**(Long Answer Type Questions)**

**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.

(2×19=38)

**1.** Explain Secure Socket Layer Handshake Protocol in brief.

2. What is transposition cipher? Encrypt plain text " WE ARE THE BEST" using transposition cipher use key – "HEAVEN".
3. Explain Working of PGP in detail.
4. Compare between Symmetric Key Encryption and Asymmetric Key Encryption in detail.
5. Describe IP sec protocol with its components and Security Services.

## **SECTION–B**

### **(Short Answer Type Questions)**

**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. (4×8=32)

1. What are the categories of computer security?
2. Illustrate the cryptanalysis with Dictionary attack.
3. What do you understand by Physical Security?
4. Describe Elliptic Curve Cryptography.

5. What is VPN? Explain types of VPN.
  6. Explain Digital Signature Algorithm.
  7. Explain ISAKMP protocol for IP sec.
  8. Explain various active attacks in detail.
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