

S-753

Total Pages : 3

Roll No. -----

MIT(CS)-203

Advance Cyber Security Techniques

(MSCCS/PGDCS)

2nd Semester, Examination 2022(Dec.)

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.

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 x 19 = 38]

P.T.O.

- Q.1. What is RSA algorithm? Explain the generation of public and private keys and hence generation of cipher text through RSA with the help of example.
- Q.2. Explain IP security architecture. Show how ESP works in transport and tunnel mode.
- Q.3. Explain Secure Socket layer in detail.
- Q.4. How does PGP create a secure Network? Also explain PGP.
- Q.5. What do you understand by cryptography? List the various cryptographic techniques with suitable examples.

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 x 8 = 32]

- Q.1. What are the various security mechanism.
- Q.2. What is the difference between threat and attack?
- Q.3. Write the three dimensions of cryptographic systems.
- Q.4. What do you mean by brute force attack and intrusion.
- Q.5. What is the difference between substitution and transposition technique.
- Q.6. What are the properties that digital signature should have.
- Q.7. Define briefly the playfair cipher and Ceaser cipher.
- Q.8. What are the various types of Firewalls? Explain each of them in detail.
