

C1045

Total Pages : 3

Roll No.

MIT(CS)-204

Cryptography & Network Security

Master Of Science (Cyber Security (MSCCS-21)

2nd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. What is Network Security? Explain Different Types of Security.

2. What is key management? Explain different types of Public key distribution technique.
3. Explain the various protocols used in SSL.
4. Explain the working of Electronic Code Book (ECB) and Cipher Block Chaining (CBC) mode of DES.
5. Explain digital signature process with neat diagram.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Differentiate between monoalphabetic ciphers and polyalphabetic ciphers and give one example for each.
2. What is Cryptography? What are the applications Network Security? Explain.
3. Explain briefly block cipher design principle.
4. Explain briefly working of AES.
5. Draw the block diagram of DES algorithm. Explain briefly.

6. Briefly explain the security services and mechanisms.
 7. What is firewall? Explain different types of firewall.
 8. What is Security Attack? Explain Active attack and Passive attack with an example.
-