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OLE-22672

M.Tech. 3rd Semester (CSE) CBCS Scheme Examination – April, 2021 NETWORK SECURITY

Paper: 16CSE23C2

Time: Three hours] [Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Question No. 1 is *compulsory*. Attempt any *four* questions by selecting *one* question from each Unit. All questions carry equal marks

- **1.** Write the short notes on the following:
 - (i) What is Crypt-Analysis ? Give its different mechanisms.
 - (ii) How is Steganography different from Cryptography?
 - (iii) Encrypt the plain text 'HELLO' using Playfair cipher with key 'EXAM'.
 - (iv) What is Masquerade?
 - (v) Differentiate between Sniffing and Spoofing Attack.
 - (vi) Explain DOS.

UNIT - I

- **2.** What is RSA Algorithm ? In a RSA Algorithm it is given that p = 7, q = 11 and e = 17 and M = 8 find the cipher text 'C' and decrypt the 'C' to set the plain text M.
- **3.** Explain Services, Mechanisms and Attacks on the OSI security architecture.

UNIT - II

- **4.** Explain AES and DES in detail and differentiate between them.
- **5.** Explain Diffie Hellman Key exchange in detail by taking suitable example.

UNIT - III

- **6.** Explain SHTTP. How it is different from HTTP? Also highlight the feature of Time Stamping Protocol (TSP).
- **7.** Differentiate between SSL and SET by explaining them in detail.

UNIT - IV

- **8.** What is Kerberos? Explain in detail with its types. Also write its drawbacks and limitations.
- **9.** What is Firewall? Give Types of Firewalls also discuss the Firewalls design principles in detail.

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