THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020
(CBCSS-PG)
CC19P CSS3 E02c - CRYPTOGRAPHY AND NETWORK SECURITY
(Computer Science)
(2019 Admission Regular)

Time: Three Hours   Maximum: 30 Weightage

PART A
Answer any *four* questions. Each question carries 2 weightage.

1. What are the requirements for message Authentication?

2. Explain different Network Security services.

3. What is the significance of Alert Protocol in Transport Layer Security?

4. Compare Passive Attacks and Active Attacks.

5. What are Reply attacks?

6. Discuss Intrusion Detection.

7. What are distributed firewalls?

(4 x 2 = 8 Weightage)

PART B
Answer any *four* questions. Each question carries 3 weightage.

8. Discuss the stream cipher RC4 in detail.

9. Explain Digital Signature Algorithm.

10. Discuss the following:

    a) DMZ Networks

    b) DDoS

11. Describe Public Key Infrastructure Model.

12. Explain key distribution Scenario in Symmetric key distribution.

13. Compare SSL and TLS.

14. Write notes on:

    a) SSH

    b) HTTPS

(4 x 3 = 12 Weightage)

PART C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain DES Encryption algorithm in detail.

16. a) Discuss the format of IPSec ESP Packet.

    b) Explain the overall operation of SSL Record Protocol.

17. Describe Diffie-Hellman Algorithm.

18. Explain Malicious Software in detail.

(2 x 5 = 10 Weightage)

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