Bachelor level/ B.Sc CSIT /7th Semester   Full Marks : 60

Time: 3 hrs   Pass Marks : 30

Subject : Network Security (COM475 B)

Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.

Group 'A'

Very short Answer Questions (Attempt ALL questions)   **[8x2=16]**

1. What is the use of X.509 format?
2. Define the term Confidentiality and Integrity.
3. Define passive attack.
4. Use of key hierarchy in key distribution.
5. Define session in SSL.
6. Define GPA..
7. Define the term HTTPS.
8. Define public key and private key encryption.

Group 'B'

Short Answer Questions (Attempt any FIVE questions)   **[5x4=20]**

9. Define Network security and what are the key objectives of computer security?
10. Explain different security attacks in computer network.
11. Define the term mutual authentication and what are different types of reply attack?
12. Explain security model in network security.
13. Discuss the SSL Record Protocol Operation.
14. Discuss the function of S/MIME.
15. Explain the Federated Identity Management

Group 'C'

Long Answer Questions (Attempt any THREE question)   **[3x8=24]**

16. What are different security services and security mechanisms used in network security?
17. Define the IEEE 802.11i Wireless LAN Security and explain the different services provided by it.
18. Discuss the term SSL Architecture and explain the SSL protocol stack.
19. What are the two principle of remote user authentication principle and what are the measures to identify the user identity?

THE END