Roll No. ☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 01**

Total No. of Questions : 08

M.Tech.(IT)   (Sem.–1)
NETWORK SECURITY
Subject Code : CS-503
Paper ID : [E0683]

Time : 3 Hrs.   **Max. Marks : 100**

INSTRUCTION TO CANDIDATES :
1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TWENTY marks.**

1.   Answer the following :

  a. Discuss about various internet access technologies in detail.

  b. What are digital certificates? How are they issued?

2.   What are Virtual Private Networks (VPN) and Demilitarized Zones (DMZ)? Draw a comparison between both.

3.   a. How is HTTP different from HTTPS? Which one is more preferred for sensitive applications?

  b. Explain how SSL works.

4.   What are digital signatures? How are they useful? Support your answer with suitable examples.

5.   Discuss the following attacks in detail :

  a. Eavesdropping

  b. Smurf Attack

  c. SQL Injection

  d. Phishing

6.   Give a brief description of multicast routing protocols. Explain with diagrams.

7.   What is symmetric key cryptography? Discuss any two key distribution protocols.

8.   Explain Network security in your own words. What are the key principles of network security? Give examples.