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BT-6/M-14 **8603**

NETWORK MANAGEMENT & SECURITY

CSE-306

Time : Three Hours] [Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. What do you understand by Cryptography ? What is the difference between symmetric and asymmetric cryptography ? Discuss.

2. Write short notes on the following :
   (a) Digital Signature
   (b) Substitution Cipher.

Unit II

3. What is Multilevel Security in SELinux ? Explain.

4. What do you understand by Bohr bugs and Heisen bugs ? How are these different ? Explain using suitable examples.

Unit III

5. (a) What do you understand by Trojan horse ? How are these different from computer viruses ? Explain.

   (b) What is Network Security ? Explain various types of attacks in detail ? How can we overcome these attacks ?

6. (a) Write a detailed note on Kerberos protocol ? What are its drawbacks and limitations ? Explain.

   (b) What is botnet ? Write a detailed note on the mechanism of Distributed Denial of Service (DDoS) attack.

Unit IV

7. (a) Explain Protocol vulnerabilities ? Write a note on TCP/IP protocol vulnerability ?

(b) What do you understand by Denial of Service (DoS) attacks ? How are these carried out ? Discuss.

8. (a) What is Intrusion Detection System ?

(b) What is Firewall ? How is it useful in providing network security ?