

Exam. Code : 303502

Subject Code : 5007

PGDCA Semester-II

1. NETWORK CONCEPTS & MANAGEMENT
(Hardware/Software, Setting in Linux/Unix/NT Environment)

Time Allowed—3 Hours]

[Maximum Marks—50

Note:— Attempt any **five** questions. All questions carry equal marks.

1. Explain the difference between LAN, MAN and WAN.
2. Explain the functions of each layer in OSI model. How is error control and flow control in data link layer different from error control and flow control in transport layer ?
3. Explain the difference between hub, switch, bridge, router and gateway with the help of suitable examples.
4. Explain all the different classes of IPv4 addressing scheme. How is IPv4 different from IPv6 ?
5. What is the difference between symmetric-key cryptography and asymmetric-key cryptography ? Explain RSA algorithm for cryptography in detail.

6. Briefly discuss the salient features of Windows NT Operating System.
7. Discuss the design of Unix Operation System.
8. Explain the structure of Unix File System and compare it with Windows NT file system.