

Exam. Code : 303502

Subject Code : 7223

**P.G. Diploma in Computer Application (PGDCA)**

**2<sup>nd</sup> Semester**

**NETWORK CONCEPTS AND MANAGEMENT**

**(Hardware, Software, Setting in LINUX/UNIX/  
NT Environment)**

**Paper—I**

Time Allowed—3 Hours]

[Maximum Marks—50

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

1. What are the goals of Computer Network ? Discuss the typical hardware and software requirements for setting up a computer network. Also mention software/hardware required for security of the network.
2. Compare and contrast OSI and TCP/IP reference models. Give areas where each of these is used.
3. Differentiate between Routers, Hubs and Switches in detail.
4. Discuss the various data compression techniques used in network security.

5. Elaborate in detail the IP addressing schemes.
6. Explain in detail about managing domain controllers.
7. Explain in detail the architecture of Unix operating system.
8. Write short notes on the following :
  - (a) ATM
  - (b) Cryptography.