

**DIPLOMA – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (DCSVI)/ADVANCED LEVEL  
CERTIFICATE COURSE IN COMPUTER  
SCIENCE AND ENGINEERING (ACCSVI)**

**Term-End Examination**

**December, 2014**

00714

**BICS-031 : BASICS OF NETWORKING**

*Time : 2 hours*

*Maximum Marks : 70*

---

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

---

1. (a) What do you understand by a Computer Network ? Explain the criteria and targets of Computer Network. 7
- (b) What is Software Maintenance ? Explain Backing Up Data in detail. 7
2. (a) What are network topologies ? Explain Star and Tree topologies with the help of diagrams. 7
- (b) What is a Hub ? Explain the features of a Gateway. 7
3. (a) What is a Coaxial Cable ? Describe its applications with the help of a diagram. 7

- (b) How do you classify the network by peer-to-peer component rule ? 7
4. (a) What are guided and unguided media ? Explain wireless communication in detail. 7
- (b) Illustrate network control devices with the help of an example. 7
5. (a) What do you understand by satellite communication ? Explain Cellular Telephone features in detail. 7
- (b) What is a Reference Model ? Compare TCP and OSI Model with suitable diagrams. 7
6. (a) Describe in detail the data link layer and session layer with suitable diagrams. 7
- (b) Briefly explain the installation and configuration of TCP/IP. Define five protocols from TCP/IP suite. 7
7. Write short notes on any *two* of the following :  $2 \times 7 = 14$
- (i) Routers
- (ii) ICMP
- (iii) ARP
- (iv) Data Encapsulation
-