

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

Term-End Examination

December, 2012

BICS-031 : BASICS OF NETWORKING

Time : 2 hours

Maximum Marks : 70

Note : Attempt any Five Questions. All carry equal marks.

1. (a) What is computer network ? Differentiate sharing information and sharing resources. 7
(b) Explain in detail the network features of E-mail and remote access. 7
2. (a) What do you understand with Topology ? Explain Tree and Mesh Topology in detail. 7
(b) Explain how Modems act as network control device ? 7
3. (a) Describe the optical fibre structure ? Also explain its advantages. 7
(b) Explain wireless communication with block diagrams. State communication band in brief. 7

4. (a) What is OSI reference model. Explain Encapsulation terminology. 7
- (b) What is guided media ? Explain Twisted pair in detail with neat and clean diagram. 7
5. (a) Differentiate between OSI and TCP/IP reference models. 7
- (b) What is IP addressing ? Explain Registered and unregistered addresses. 7
6. (a) Explain Bridges and Gateways with proper diagrams. 7
- (b) What is point to point and multipoint connection ? Explain with diagram. Explain server based networks. 7
7. Write the short notes on *any two* of the following : 7x2
- (a) Hubs
- (b) MAN
- (c) ARP
- (d) SLIP and PPP
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