

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

Term-End Examination

June, 2012

BICS-031 : BASICS OF NETWORKING

Time : 2 Hours

Maximum Marks : 70

Note : Attempt any Five questions. Each carry equal marks.

1. (a) What is computer network ? Explain the criteria and targets of computer network. 7
(b) Explain the network features like file sharing, printer sharing and application services. 7
2. (a) What are Topologies ? Explain Ring Topology and Star Topology with neat and clean diagram. Also their advantages and disadvantages in detail. 7
(b) What do you understand with network control devices explain Gateways and modems in detail ? 7
3. (a) Explain guided and unguided media with proper example. Explain UTP/STP with proper diagrams. 7
(b) What is Coaxial Cable ? Explain it with neat and clean diagram and also write its applications. 7

4. (a) Compare OSI reference model with TCP/IP mode with suitable diagrams. 9
- (b) What is subnet mask address ? And how it affects to the following ? 5
- (i) Default mask address
- (ii) Number of subnet and Host per subnet.
5. (a) Explain in detail the data link layer, session layer and application layer with proper diagrams. 7
- (b) What is the use of Router in computer network ? Differentiate Router with Bridge Network control device. 7
6. (a) Classify the network by peer to peer component role. 7
- (b) Compare LAN and MAN in detail with their advantages. 7
7. Write the short notes on *any two* of the following : 7x2=14
- (a) ICPM
- (b) UDP
- (c) ALOHA
- (d) Repeaters
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