

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

Term-End Examination

December, 2015

BICS-031 : BASICS OF NETWORKING

Time : 2 hours

Maximum Marks : 70

Note : Attempt any *five* questions. Each question carries equal marks.

1. (a) What is meant by IP address ? Explain different classes of IP addresses. 7
- (b) What is a Hub ? Explain the role of hub in a network with a neat diagram. 7
2. (a) Explain the operations of SLIP and PPP. 7
- (b) Discuss in detail the working of Token Bus. 7
3. (a) Differentiate between optical fibre and coaxial cables. 7
- (b) Discuss Microwave communication and Satellite communication in brief. 7

4. (a) What are the two protocols that are defined at the transport layer of the TCP/IP reference model ? Mention their applications. 7
- (b) Distinguish among LAN, MAN, WAN and Internet. 7
5. (a) Describe the transmitting and receiving operations in mobile phones. 7
- (b) Define optical fibre and its principle. Draw and explain a cross-section diagram of optical fibre. 7
6. (a) Differentiate between OSI and TCP/IP. 10
- (b) Discuss various features of a network. 4
7. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Unguided Media
- (b) Repeaters
- (c) Registered and Unregistered Addresses
- (d) Server-based Network
- (e) Data Encapsulation
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