BICS-031

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

Term-End Examination

June, 2014

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 Network Plan ? Explain the criteria and targets of Computer Network.   7

    (b)   Explain Information and Resource Sharing.   7

2. (a)   Define Network classification. Compare LAN and WAN in detail with their advantages.   7

    (b)   Explain Server based Network. Discuss file sharing in detail.   7

3. (a)   Describe peer to peer component role in Computer Network.   7

    (b)   Define the term Router. Describe it with the help of an example.   7

4. (a) What is twisted pair ? Explain UTP in detail. 7

(b) What is propagation mode ? Explain cross-sectional structure of an optical fibre. 7

5. (a) Explain guided and unguided media. Briefly define microwave communication. 7

(b) What is Reference Model ? Compare TCP and OSI Models with suitable diagrams. 7

6. (a) What are Protocols ? Explain TCP and UDP in detail. 7

(b) Explain IP Addressing in detail. Differentiate : Registered and Unregistered Addressing. 7

7. Write short notes on any *two* of the following : *2×7=14*

(i) SLIP

(ii) ARP

(iii) Bridges

(iv) ICMP

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