

**DIPLOMA – VIEP – COMPUTER SCIENCE AND
ENGINEERING (DCSVI)**

00601

**Term-End Examination
June, 2014**

BICSE-006 : ELECTIVE-COMPUTER NETWORKS

Time : 2 hours

Maximum Marks : 70

*Note : Answer any **five** questions. Question no. 1 is compulsory. All questions carry equal marks.*

1. (a) The other name of a LAN card is *2×7=14*
- (i) Modem
 - (ii) NIC
 - (iii) Internet card
 - (iv) Network connector
- (b) Which of the following items is **not** used in LAN ?
- (i) Computer
 - (ii) Cable
 - (iii) Modem
 - (iv) Printer

- (c) A device that forwards data packets from one network to another is called a
 - (i) Bridge
 - (ii) Switch
 - (iii) Hub
 - (iv) Gateway

- (d) The network 110.80.40.1 is
 - (i) Class A Network
 - (ii) Class B Network
 - (iii) Class C Network
 - (iv) Class D Network

- (e) Digital Signature is
 - (i) Scanned Signature on computer
 - (ii) Code Number of the sender
 - (iii) Public Key Encryption
 - (iv) Software to recognize Signature

- (f) Working of the WAN generally involves
 - (i) Satellite
 - (ii) Frame delay
 - (iii) ATM
 - (iv) All of above

- (g) Telnet is a
 - (i) Network of Telephones
 - (ii) Television Network
 - (iii) Remote login
 - (iv) All of above

2. (a) Discuss the important design issues for various layers. 7
- (b) Distinguish between TCP/IP and OSI Reference Models. 7
3. (a) Define Framing. Explain any two methods of Framing with example. 7
- (b) Explain about the frame format of PPP. 7
4. (a) Discriminate between the Send window and Receive window for link and show how are they related with 7
- (i) Go-Back-N Control Scheme.
- (ii) A Selective Repeat ARQ Scheme.
- (b) Explain about role of minimum distance in error correction and detection. 7
5. (a) Define Switching. Distinguish between packet and circuit switching and also discuss about virtual circuit switching. 7
- (b) Explain the header format of IPv4 and IPv6. 7
6. (a) Explain about the TCP transmission policy, and congestion control. 7
- (b) Explain about the various fields of TCP header with the help of neat diagram. 7

7. (a) What is the function of SMTP ?
Differentiate between user agent (UA) and
mail transfer agent. 7
- (b) State and explain about various types of
HTTP Messages. 7
8. Explain any *four* parts from the following : $4 \times 3 \frac{1}{2} = 14$
- (a) HDLC
- (b) CSMA/CD
- (c) ATM
- (d) QOS
- (e) Mobile IP
- (f) MIME
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