

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

Term-End Examination

June, 2013

BICS-031 : BASICS OF NETWORKING

Time : 2 hours

Maximum Marks : 70

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

1. (a) What is the principal difference between connectionless communication and connection oriented communication ? Explain with a suitable example. 7
- (b) Explain the OSI reference model with a block diagram. 7
2. (a) Discuss the design issues of Medium Access control sublayer. 7
- (b) Consider the delay of pure ALOHA versus slotted ALOHA at low load. Which one is less ? Explain your answer. 7
3. (a) Describe the various factors that determine whether a communication system is a LAN, MAN or WAN ? 7

- (b) Explain the various components of a fibre-optic cable. Draw the diagram also. 7
4. (a) Differentiate between circuit switching and packet switching. 7
- (b) What is the purpose of Hamming code in Error control ? Explain with a suitable example. 7
5. (a) How does a Token Ring LAN operate ? 7
- (b) What are the advantages of using UDP over TCP ? 7
6. (a) How is subnetting beneficial in IP addressing ? Also explain the concept of masking. 7
- (b) Differentiate between services and protocols. 7
7. Write short notes on **any two** : 7x2=14
- (a) Switch
- (b) Gateway
- (c) Router
- (d) DNS
- (e) TCP/IP
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