| BICS-017 |

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00973   **December, 2017**

BICS-017 : COMPUTER NETWORKS

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any **seven** questions. All questions carry equal marks.*

1. (a) Distinguish between Connectionless and Connection Oriented Protocols.   *6*

   (b) What is Packet Forwarding in computer networks ? Discuss in brief.   *4*

2. (a) Explain different types of delays in networks.   *4*

   (b) Discuss Socket Programming with TCP briefly.   *6*

3. Describe various Network Routing algorithms.   *10*

4. (a) Explain IPv4 datagram format.   *6*

   (b) Discuss in brief, Dynamic Host Configuration Protocol (DHCP).   *4*

5. (a) What are the services provided by the data link layer ? *6*

(b) Explain about parity check. *4*

6. What is Ethernet ? Explain ethernet frame structure. *10*

7. What are the protocols used for real-time interactive applications ? *10*

8. (a) What is Network Security ? What are the various ways to provide security ? *5*

(b) Explain briefly, Symmetric Key Cryptography. *5*