

**COMPUTER NETWORK**  
**5<sup>th</sup>/COMP./IT/EEE/CSE/2626/May'16**

**Duration: 3 Hrs**

**M.Marks=75**

**SECTION A**

**Q1. Do all Questions:**

**1x5=5**

**(A) Fill in the blanks:**

- a. Bridge operates on the \_\_\_\_\_ layer of OSI reference model.
- b. IP has two parts: \_\_\_\_\_ and host.
- c. The Ethernet uses \_\_\_\_\_ protocols.
- d. The data on the network is transported in packets called \_\_\_\_\_.
- e. A small Bluetooth network is called \_\_\_\_\_.

**(B) State true/false:**

**1x5=5**

- a. Computer network is an inter-connection of dependent computers.
- b. For digital signal, bit rate is the time required to send one single bit.
- c. UDP is unreliable connection-less protocol.
- d. Ping 127.0.0.1 is a loopback test.
- e. Each computer must have an IP address before it can connect to the internet.

**(C) Expand the following terms:**

**1x5=5**

- (a) TCP/IP      (b) WAN      (c) Wi-Fi      (d) NIC      (e) HTTP

**SECTION B**

**Q2. Do any FIVE Questions:**

**5x6=30**

- a. What do you mean by network and explain different types of topologies in a network.
- b. What are various troubleshooting tools?
- c. Explain difference between Hub and Switch.
- d. Define IP addressing and explain different classes of IP addressing.
- e. Explain difference between Wi-Fi and Bluetooth.
- f. What do you understand by RAID management?
- g. Differentiate between TCP/IP and OSI model.

**SECTION C**

**Do any TWO Questions:**

**15x2=30**

**Q3. (a) Explain LAN, MAN and WAN.**

**(b) Define WLAN. Write down the benefits of WLAN.**

**Q4. Explain OSI reference model in detail.**

**Q5. Explain the following terms.**

**(a) MODEM**

**(b) Cryptography**