Subject: Computer Network
Unit Test I -- B.E(E &TC) Div II (Acad-Year : 2011-2012 Sem I)

Duration: 1 hour   **Max Marks: 30**

Instructions:
1. Assume Suitable data, wherever necessary.
2. Attempt any 5 questions.
3. Bold numbers to the right indicate maximum marks.

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Q.1 Write down three responsibilities each of Network Layer and Transport layer in TCP/IP?   **(06)**

Q.2 What is the difference between a port address, a logical address and a physical address? Specify the size (no. of bytes) for each address.
                                                                                         (06)

Q.3 Draw a neat labeled diagrams for various wired transmission media.
                                                                                         (06)

Q.4 Draw a neat labeled diagram for ADSL architecture showing ATU-R, ATU-C, Splitter and DSLAM.   **(06)**

Q.5 List out 3 functions each of MAC and LLC sub-layers of Data Link Layer.   **(06)**

Q.6 Draw the diagram depicting normal operation of Go-Back-N ARQ. (show the size of sliding window at both sender and receiver side during each transmission.)
                                                                                         (06)

************* *Best of Luck*************
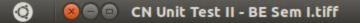
Bharati Vidyapeeth's College of Engg for Women, Pune-43

Department of Electronics & Telecommunication

Sub:- COMPUTER NETWORK

Duration :- 1 Hour 30 min   Max^m Marks: **50**

INSTRUCTIONS

1. All questions are compulsory.
2. Assume suitable data, wherever necessary

Q.1 Summarize different options (10 Bases etc) defined for IEEE 802.3 medium giving Transmission medium, Data rate, Max^m Segment length, topology etc. (Tabulate it) ⑧

Q.2 what is Gigabit Ethernet? what are its different implementations? ⑦

Q.3 what is ARP? Explain ARP operation with diagram. ⑩

Q.4 Write a short note on BOOTP protocol ⑤

Q.5 what is range of IP address for class A, B &C? How many hosts & networks can be configured for each class. Tabulate this information ⑩

Q.6 With reference to Frame Relay ⑩
1) List out its features
2) Draw architecture
3) Layers.

Unit Test-1

Computer Networks

Solve any two   Marks:30

1. Discuss OSI model, Layers in OSI model in depth.   (15)

2. a) Discuss physical layer in detail.   (5)

   b) Write a note on Guided and Unguided Transmission Media.   (5)

   c) Explain LAN,MAN,WAN in brief.   (5)

3. Discuss Framing, Flow and Error control in data link layer.   (15)

Unit Test-2

Computer Networks   50Marks.

1. (a) Explain "HDLC" In detail.   (5)

   (b) Describe various types Ethernet.   (5)

2. Describe any two   (10)

   (a) IEEE 802.11–Bluetooth

   (b) Frame Relay

   (c) ATM

3. Write Short notes on any four   (20)

   (a) IPv4, IPv6

   (b) ARP

   (c) RARP

   (d) DHCP

   (e) ICMP

   (f) IGMP

4. (a) Discuss Routing in detail   (5)

   (b) Explain CIDR   (5)

5. What is the range of IP address for Class A,B,C. Discuss in deep.
   (10)