COMPUTER NETWORKS
6th/ECE/ETV/EMP/ECEII/2462/6061/Nov'15

Duration: 3Hrs   **M.Marks=75**

SECTION-A

Note: Attempt all questions.

Q1) Fill in the blanks: **1x10=10**

i)   …………. Topology requires a central controller or hub.
ii)   The IP header size is ……………...
iii)   E-mail is an ………of sending a letter.
iv)   TCP and UDP are both ……………layer protocol.
v)   The ………… is assigned to network with very far number of hosts.
vi)   Error detection at data link layer is achieved by………………
vii)   VOIP stands for ………………
Viii)   The ………. Is responsible for document presentation.
ix)   There are …………..classes of network.
x)   The device that converts analog signal to digital signal is………………..

State True or False: **1x5=5**

a.   Physical interface to medium is usually network adapter.
b.   The second layer of OSI model is data link layer.
c.   RAID is the organization of multiple disks into a large, high performance logical disk.
d.   Coaxial cable has conductors with an equal resistance.
e.   Apple talk network topology is bus.

SECTION-B

Q2) NOTE: Attempt any FIVE questions: **5x6=30**

a.   Explain data link and transport layer of OSI model.
b.   Explain difference between circuit switching and packet switching.
c.   Define ISDN and its types.
d.   Write short note on cryptography.
e.   Differentiate between hub and switch.
f.   Describe IP Packet format of IPV6.

SECTION-C

Note: Attempt any THREE questions: **3x10=30**

Q 3) Explain network topologies with diagram.
Q 4) What do you understand by Raid management? Explain in detail.
Q 5) Explain Subnetting and Supernetting with example and diagrams.
Q 6) Write short note on:
        i)   Repeater
        ii)   Modem