Code.No: 07A6EC08   R07   SET-2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
III B.TECH II SEM–REGULAR/SUPPLEMENTARY EXAMINATIONS MAY - 2010
COMPUTER NETWORKS
(Common to CSE, IT, CSSE, E.COMP.E)

Time: 3hours   Max.Marks:80
Answer any FIVE questions
All questions carry equal marks
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1.a)   What are the factors that determine whether a communication system is a LAN, MAN or WAN?
  b)   Explain the layer of the Internet model.   [6+10]

2.a)   Explain about the crossbar switches, space division switches and Time division switches with an example.
  b)   Explain the modes for propagating light along optical channels.   [8+8]

3.   Describe the design issues of Data Link layer.   [16]

4.a)   Explain about spanning tree bridge.
  b)   Explain about carrier sense multiple Access protocols.   [8+8]

5.a)   Explain about routing for Mobile hosts.
  b)   Describe the services provided by the network layer to the transport layer. [8+8]

6.   Explain the use of hop-to-hop choke packets and load shedding for congestion control.
                                                                                 [16]

7.a)   Explain about the ATM service categories and their characteristics.
  b)   How is ATM Adaptation layer is different from TCP.   [8+8]

8.a)   Explain the frame format of a PGP message.
  b)   Explain about the Diffie-Hellman key exchange protocol.   [8+8]

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