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)   Explain the frame format of Novell Netware IPx packet.
 b)   What is an internet? What is Intranet?
 c)   For n devices in a network, what is the number of cable links required for a mesh, ring, bus and star topology?   [6+4+6]

2.   Describe the classification of Transmission media.   [16]

3.a)   Explain about sliding window protocol using selective repeat.
 b)   Explain about Error-Detecting codes.   [8+8]

4.a)   Explain about the Transparent bridge.
 b)   Explain about collision –Free protocols.   [8+8]

5.a)   Explain about distance vector routing.
 b)   Describe the design issues of Network layer.   [8+8]

6.a)   Explain about the congestion control for Multicasting.
 b)   Explain the general principles of congestion control.   [8+8]

7.a)   Describe the basic structures of ATM Adaptation layer.
 b)   Explain the TCP connection management Finite State machine.   [8+8]

8.a)   Explain about the components of SNMP Model.
 b)   Describe about the Needham – Schroeder authentication protocol.   [8+8]

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