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 design of original ARPANET.
  b)   What are the three criteria necessary for an effective and efficient network?
  c)   Name the four basic network topologies and give an advantage for each type. [5+3+8]

2.   Explain about B-ISDN ATM reference Model.   [16]

3.a)   Explain about the Error-correcting codes.
  b)   Explain about the HDLC frame format.   [8+8]

4.a)   Explain about the source routing bridge.
  b)   Explain about the 802.4 frame format.   [8+8]

5.a)   Explain about Hierarchical routing.
  b)   Distinguish between Datagram and virtual circuit subnets.   [8+8]

6.a)   Explain about the leaky bucket algorithm.
  b)   Explain the congestion control techniques in virtual circuit and datagram subnets.
                                                                   [8+8]

7.a)   Explain about the ATM cell formats.
  b)   Explain about Tunneling.   [8+8]

8.a)   Explain about the mail access protocols.
  b)   Explain about the RSA algorithm.   [8+8]

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