

III B.Tech II Semester Supplementary Examinations, April/May 2005
COMPUTER NETWORKS
(Common to Computer Science & Engineering, Information Technology
and Electronics & Computer Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Justify the need for networking giving eight reasons.
(b) Discuss the architecture of OSI reference model layers.
2. (a) Detail on the ISDN system architecture
(b) Explain three transmission media of physical layer
3. (a) Explain the operation of the protocol Go back n ?
(b) Explain the operation of Token ring method.
4. (a) Explain the difference between Source routing bridge and Transparent bridge.
(b) Explain the operation of spanning tree bridges.
5. (a) Discuss the drawbacks of flooding and distance vector routing algorithms.
(b) Explain how to subnet a class B network and the use of subnet mask.
(c) Convert the IP address whose hexadecimal representation is C22F1582 to dotted decimal notation and explain.
6. (a) Explain and compare the different adaptive routing algorithms.
(b) Discuss the concept of connectionless internetworking.
7. (a) Describe expectational acknowledgement?
(b) What are the features of UDP?
8. (a) What is PGP? Explain its working with an example.
(b) Compare and contrast PGP and PEM.
