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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE / IT) (2011 Onwards) (Sem.-4)

COMPUTER NETWORKS-I

Subject Code : BTCS-403

Paper ID : [A1185]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Explain in brief the term Computer Network and its goals.
- b) Differentiate between broadcast and point to point networks.
- c) What is the need of Protocols?
- d) Explain in brief the term Attenuation in reference to transmission impairments.
- e) What are the disadvantages of Optic fiber as a transmission media?
- f) Explain in brief about Manchester encoding.
- g) Explain briefly the effects of Congestion.
- h) Differentiate between Distance vector and Link State routing algorithms.
- i) What are the responsibilities of Transport Layer?
- j) Explain in brief the term DNS.

SECTION-B

2. Write a detailed note on following transmission media :
 - a) Twisted pair
 - b) Co-axial cable
3. Write a detailed note on Selective Repeat ARQ Sliding window Protocol.
4. Write a brief note on Static and Dynamic Channel Allocation.
5. Explain in detail the concept of flow control and buffering in reference to transport layer.
6. Write a detailed note on E-mail in reference to Application Layer.

SECTION-C

7. Write a detailed note on the ISO-OSI reference model.
8.
 - a) Write a brief note on TCP and UDP protocols. Also compare these protocols in brief.
 - b) Write a brief note on Checksum and hamming code in reference to Error detection and Correction codes.
9. Write a detailed note on Link State Routing.