Visit www.brpaper.com for downloading previous years question papers of B-tech, Diploma, BBA, BCA, MBA, MCA, Bsc-IT, M-Tech, PGDCA, B-com

Roll No. 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) Define baud rate.
- b) What is open loop congestion control?
- c) Define throughput.
- d) Why FTP uses two connections?
- e) List the important features of LAN.
- f) What is RS 232C?
- g) Why twisted pair cable is twisted?
- h) Define interface between layers.
- i) What is fading?
- j) Differentiate between pure aloha and slotted aloha.

1 | M - 56606 (\$ 2) - 7 3 9

SECTION-B

- 2. What are the goals of computer networks? Explain in brief.
- 3. Differentiate between asynchronous and synchronous TDM.
- 4. Explain the stop and wait ARQ mechanism.
- 5. A company is granted the site address 201.70.64.0. The company needs six subnets. Design the subnets.
- 6. What is multiplexing and de-multiplexing at transport layer? Explain in brief with example.

SECTION-C

- 7. What is link state routing? Explain the steps involved with an example.
- 8. Given the data word 1010011010 and the divisor 10111:
 - a. Show the generation of the codeword at the sender site (using binary division)
 - b. Show the checking of the codeword at the receiver site (assume no error).
- 9. What is DNS? Differentiate between recursive and iterative queries. Explain the formats of the query and response messages used in DNS.

2 | M -56606 (\$ 2) - 7 3 9