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:

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

SECTION-A

1. Write briefly:

- a) Explain terms LAN and MAN.
- b) Define protocol.
- c) Write the full form of HDLC and PPP.
- d) What is Nyquist's theorem?
- e) What are the issues of Data Link Layer?
- f) Define Bandwidth.
- g) What is the difference between port number and IP address?
- h) Write the difference between Network Layer delivery and Transport Layer delivery.
- i) What is WWW?
- j) Define subnetting.

SECTION-B

- Discuss about pros and cons of different Network Topologies. 2.
- 3. What are Transmission Impairments?
- 4. Explain any one Error detection and correction code method.
- Explain how Leaky Bucket protocol used for congestion control. 5.
- 6. Explain Transmission Control protocol in brief.

SECTION-C

- 7. Explain the functions of different layers of OSI Model.
- ss.com a) Discuss about Stop & Wait ARQ Sliding Window protocol. 8.
 - b) Explain IP addressing.
- Write short notes on following:
 - a) Coaxial Cable
 - b) DNS
 - c) Distance Vector Routing Algorithm