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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 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?
- i) Define subnetting.

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SECTION-B

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

SECTION-C

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

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