Enroll. No._____

MARWADI EDUCATION FOUNDATION

Faculty of Engineering/Technology/PG Studies

Computer Engineering / Information Technology

B.E. SEM: 5 FIRST MID-SEM. EXAM August: 2014

Subject: -Computer Networks (150702) **Date:- 25/08/2014**

Total Marks:-30 **Time: - 75 Minutes**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Question: 1. [6]

(a) Explain ATM Reference Model.

(b) Explain Connection oriented service and Connection less service with suitable examples.

Question: 2. [12]

(a) Solve following examples

(1) Assume we need to download text documents at the rate of 60 pages per Minute. Page is an average of 24 lines with 80 characters in each line. Assume that one character require 8 bit. What is the required bit rate of the channel?

(2) A channel has B = 4 KHz. Determine the channel capacity for each of the following signal-to-noise ratios: (a) 60 dB, (b) 70 dB, (c) 80 dB

(b) Explain various Guided transmission Media.

OR

(c) Explain OSI Model in detail.

Question: 3. [12]

(a) Explain HDLC Protocol.

(b) Explain following Sliding window protocols :

(1) Go Back-N Protocol
(2) Selective Repeat Protocol

OR

(a) Explain Various method of Framing

(b) Define Following terms:

(1) Piggybacking **(2)** Attenuation **(3)** Signal to Noise Ratio **(4)** Burst Length **(5)** ATM Cell

(6) Feedback based and Rate based flow Control

---Best of Luck---

Course Outcome Wise Questions

Subject Code	**150702**	Subject	**COMPUTER NETWORK**

CO No.	Course Outcome
CO1	(Knowledge) Describe the importance of computer networks and various performance metrics.
CO2	(Comprehension) Distinguish and relate various protocols in layered architecture of computer networks.
CO3	(Comprehension) Explain various topological and routing strategies for IP based networks.
CO4	(Application) Prepare program with Socket to demonstrate data communication.
CO5	(Application) Simulate static and dynamic routing protocols through simulation tools.
CO6	(Analysis) Compare various devices and protocols that builds computer network.

Blooms Taxonomy	Question List
Remember / Knowledge	
Understand	
Apply	
Analyze	
Evaluate	
Higher order Thinking / Creative	