Enroll. No._____

MARWADI EDUCATION FOUNDATION'S GROUP OF INSTITUTIONS

Faculty of Engineering/Technology/PG Studies

Computer Engineering

B.E. SEM: 5 FIRST MID-SEM. EXAM SEPTEMBER: 2013

Subject: -Computer Network (150702) **Date:- 24 / 09 /2013**

Total Marks:-30 **Time: - 90 Minutes**

Instructions:

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

Que.: 1. Explain OSI Model with figure. 6

Que.: 2 Explain Asynchronous Transfer Mode. 4

OR

Que.: 2. Distance between two stations A and B is 4000 km and link speed is 10 Mbps. size of the frame is 100 bits and 5 frames should be transmitted at data rate 50 bits/second. calculate propagation delay and transmission delay for stop and wait protocol and sliding window protocol with transmitter window size is 5.

Que.:3. Explain Guided transmission media with figure. 6

Que.:4.Explain Carrier sensing multiple access with detection and avoidance. 4

OR

Que.:4. 16 stations from 1 to 16 are contending for the use of a shared channel by using adaptive tree walk protocol, if stations 2,3,5, 6,11 suddenly become ready at once , how many bit slots are needed to resolve the contention.(Draw figure also.)

Que.: 5. Explain Sliding window protocol with sequence number logic and figures 6

Que.: 6. Explain any 2 Collision free protocols 4

OR

Que.: 6. Explain Pure and Slotted ALOHA with figure.

--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	