

Reg. No.:	
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Name: .....

## Seventh Semester B.Tech. Degree Examination, May 2014 (2008 Scheme)

08.703: COMPUTER NETWORKS (R)

Time: 3 Hours

Max. Marks: 100

## PART - A TOTAL BUT SUCHEY SELECTION

Answer all questions.

(10×4=40 Marks)

- Compare LAN, MAN and WAN.
- 2. What is the main motivation in designing the internet using a layered approach?
- 3. Which layer of OSI model does repeaters, switches, routers, gateways and bridges operate?
- 4. What are the functions of Media Access Control?
- 5. Explain hidden and exposed terminal problems.
- 6. What is the use of bridge? Explain the types of bridges.
- 7. Distinguish between iterative and recursive DNS queries.
- 8. Draw ARP format and explain.
- 9. Explain IP addressing methods.
- 10. How to map logical address into physical address?

## PART-B

Answer one question from each Module.

(3×20=60 Marks)

- A) Explain in detail the data transmission in OSI reference model. State the functions each layer.
  - B) Briefly explain stop-and-wait and selective repeat ARQ method of flow control. 8

OR

- A) Briefly explain the High Level Data Link Control (HDLC) protocol with neat labelled diagrams.
  - B) Write short notes on network hardware and network software.

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13.	A)	Compare distance vector routing and link state routing. Discuss how the routing techniques work.	ese 12
	B)	Explain the frame format of IEEE 802.3 and 802.5 in detail.	8
		(2008 Scheme) NO	
14.	A)	Briefly explain the collision avoidance mechanism used in 802.11 wireles	ss LAN.8
	B)	Discuss RIP and OSPF routing algorithms in brief.	oH 8 .12
15.	A)	List and discuss various transport layer services.	11
	B)	) Write short note on :	
		i) BOOTP	
		the main motivation in designing the internet using a layer bns 9MDI (ii)	
		tyer of OSI model does repeaters, switches, routers, gateways an APA (iii)	striciny 9
		OR	
16.	A)	Explain the relevance of IPv6. Explain advantages and disadvantages of IPv6.	
	B)	Explain each of the following in detail:	
		ish between iterative and recursive DNS queries.	
		RP format and explain.	
		IP addressing methods.	nisiox=90