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07MCA32

Third Semester MCA Degree Examination, May/June 2010 Computer Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a. b.	Define computer networks. Explain the internet architectures. With a neat block diagram, explain OSI architecture.	(10 Marks) (10 Marks)
2	a. b.	Define framing. Explain point-to-point protocol and SONET. Define piconet. With a neat block diagram, explain piconet networks.	(10 Marks) (10 Marks)
3	a. b.	Differentiate between connection oriented and connection less services. Define switching. Explain various types of switching.	(08 Marks) (12 Marks)
4	a. b.	Define an internet. With a block diagram, explain IPV4 packet format. Define routing. Explain distance vector routing.	(08 Marks) (12 Marks)
5	a. b. c.	Differentiate between TCP and UDP. With a neat block diagram, explain the state transition for connection establitermination. Explain how TCP manages byte streams.	(06 Marks) shment and (08 Marks) (06 Marks)
6	a. b.	Discuss the various problems in resource allocation. Explain fragmentation and reassembly.	(09 Marks) (11 Marks)
7	a. b.	Define DNS. Explain the hierarchy of name servers. Explain the manage gateway.	(10 Marks) (10 Marks)
8	a. b. c. d.	Write short notes for the following: Wi-Max (802 · 11) Routing for mobile holts Bridges and LAN switches Address resolution protocol (ARP).	(20 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.