USN

Third Semester MCA Degree Examination, June 2012 **Computer Networks**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.			
1	a.	With a suitable diagram, explain OSI network architecture. Compare it with TCP/IP.	
	b. c.	Elaborate on design issues for the layer. What is multiplexing? Explain the working of FDM and STDM with their limitati	(10 Marks) (05 Marks) ons. (05 Marks)
2	a. b.	What is encoding? Explain the different encoding schemes with wave forms. What is framing? What are the different types of framing approach?	(10 Marks) (10 Marks)
3	a. b.	Explain ARQ stop and wait algorithm with time lines showing various scenarios. Discuss physical properties, frame format and experience with IEEE 802.3.	(10 Marks) (10 Marks)
4	a. b.	Define switching. Explain various types of switching. Discuss the spanning tree algorithm for a particular LAN.	(12 Marks) (08 Marks)
5	a. b.	Discuss distance vector routing algorithm with a suitable example. Explain IPV4 header with a suitable diagram.	(10 Marks) (10 Marks)
6	a. b. c.	What do you mean by subnetting? Explain CIDR. Explain TCP header format with a suitable diagram.	(05 Marks) (05 Marks) (10 Marks)
7	a. b. c.	Discuss DNS in detail. Discuss the issue that affects the QOS of VOIP. Explain briefly how SMTP plays a role in transferring Internet e-mail.	(10 Marks) (05 Marks) (05 Marks)
8		Write short notes on: a) UDP b) WiMAX(802.10) c) Routing for mobile hosts. d) ARP.	(20 Marks)

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