2007

Subject Code—7213

M.C.A. (Third Year) EXAMINATION

(5 Years Integrated Course)

COMPUTER NETWORK

MCA-301

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- Draw and explain all the layers of ISO's OSI reference model. Compare this model with TCP/IP reference model.
- (a) Briefly explain history and development of Computer Networks.
 - (b) Explain Nyquist and Shannon's method for finding out maximum data rate of any channel.
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3.	Explain in detail different types of			
	transmission media at physical layer of			
	computer network. 20			
4.	Explain the following IEEE LAN standards:			
	(a) 802·3			
	(b) 802·4			
	(c) 802·5			
	(d) 802·6.			
 Explain the following sliding window protocol for flow control at data link layer: 				
	(b) Selective Repeat.			
6.	(a) Explain any two routing algorithms at			
	network layer.			
	(b) Explain leaky bucket and token bucket			
	algorithm for congestion control. 10			
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7.	Explain the following at application layer:				
	(a)	DNS			
	(b)	WWW			
	(c)	E-mail			
	(d)	Security.		20	
8.	Wri	te short notes on the follo	owing:		
	(a)	ISDN			
	(b)	ATM.		20	
					
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