END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2018

Paper Code: BCA-210 Subject: Computer Network			
Time	: 3 Hours	Maximum Marks: 75	
Note: Attempt five questions in all including Q.no.1 which is compulsory.			
Select one question from each unit.			
Q1	Answer the following: (a) Explain Shannon Capacity Theorem (b) What are different components of com	lata communication? sion impairments. etwork criteria. lits.	
, Unit-I			
02	(a) Write a short note on guided media	a. (8.5)	
Q2	(b) Define throughput, bandwidth, res	sponse time, and frequency. (4)	
Q3	(a) Draw a neat diagram of OSI model	and explain the functioning of each	
	layer.	(9.5) (9.5) (9.5) (9.5) (3)	
	(b) Differentiate between simplex, half	duplex and full duplex.	
Unit-II			
Q4	(a) Define ISDN. What are its various	·	
Q	(b) What is multiplexing? Explain var	ious types of multiplexing. (6.5)	
Q5	(a) Define Flow Control. Explain any	one flow control algorithm. (6.5)	
	(b) Differentiate between circuit, pack	tet and message switching. (6)	
Unit-III			
Q6	(a) What is routing? Explain distance	ce vector routing algorithm with an	
QU	example.	(0.0)	
	(b) Write a short note on following ne	tworking devices: (6)	
	(i) repeaters		
	(ii) bridges		
	(iii)gateways		
	(iv)routers		
07	(a) Explain static and dynamic routir	(5)	
Q7	(b) What is forwarding function? E	xplain link state routing algorithm	
	with an example.	(7.5)	
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	Unit-IV Q8 (a) Explain three-way handshaking connection management in TCP. (7.5)		
Q8	(a) Explain three-way handshaking c (b) Compare TCP and UDP Protocols.	(5)	
	(b) Compare for and obt fromous	•	
Q9	(a) Explain TCP packet format in det	ail. (8.5)	
~~	(b) What are the functions of session	and presentation layer? (4)	
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