Question Paper Code: 54204

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fourth Semester

Computer Science and Engineering

15UCS404- COMPUTER COMMUNICATION AND NETWORKS (Regulation 2015)

	Duration: 1:45 hrs Maximum: 50		60 Ma	0 Marks	
	PART A				
(Answer any Ten Questions $10 \times 2 \text{ Mark} = 20 \text{ Marks}$)					
1.	Summarize TCP/IP Protocol Suite.			CO1- U	
2.	A bit string, 0111101111101111110, needs to be transmitted at the data link. What is the string actually transmitted after bit stuffing?	a layer.	CO2	- App	
3.	Differentiate router and bridge.		CO3	5- U	
4.	State the purpose of ICMP redirect message.	redirect message.		CO4- R	
5.	The maximum payload of a TCP segment is 65,495 bytes. Why was such a strange number chosen?		CO5- U		
6.	Explain why collision is an issue in a random access protocol but not in controlled Access or channelizing protocols.			- U	
7.	Define handoff.			CO3- U	
8.	efine roaming.		CO3- U		
9.	raw the SONET layers in comparison with OSI layers.		CO3- U		
10.	raw the IPv4 datagram format.		CO4- U		
11.	Define Routing? Write the keys for understanding the link state routing?		CO4- U		
12.	Vrite the keys for understanding the distance vector routing?		CO4- U		
13.	What are the advantages of allowing persistent TCP connection in HTTP?		CO5- U		
14.	Give the format of HTTP request message?		CO5- U		
15.	Differentiate between delay and jitter.		CO5	- U	
	PART – B				
	(Answer any Three Questions $3 \times 10 = 30 \text{ Marks}$)				
16.	Draw the OSI architecture and summarize the functionalities of each layer.	CO1 - AF	P	(10)	
17.	Describe the hamming code method for error correction of transmitted ts bits with suitable numerical example.	CO2 - AP	O2 - APP (10		
18.	Explain the three generations of Cellular Telephony.	CO3 - U	O3 - U (10)		
19.	Explain about IPV6? Compare IPV5 and IPv6	CO4 - AF	- APP (10)		
20.	Explain the various fields of TCP header with the help of a neat diagram.	CO3 - Ap	- App (10)		