

8.

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Paper Code: BCAC502 Computer Networking

Full Marks:70 Time Allotted: 3 Hours

The Figures in the margin indicate full marks. Candidate are required to give their answers in their own words as lar as practicable

Group-A (Very Short Answer Type Question)

		Group-A (very Short Aliswer Type Question)	
1.	Ans	wer any ten of the following :	[1 x 10 = 10]
١.		Hamming code can detect up to if minimum Hamming distance is 3.	
		(a) 2 (b) 3 (c) 4 (d) 5	
	(11)	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN? a. CDMA b. CDMA/CD c. CDMA/CA d. None of the above	
	(111)	Mapping from MAC address to IP address is done by	
	(IV)	What is quality of services?	
	(V)	What is HTTPS?	
	(VI)	Differentiate between Guided and Unguided media?	
	/VII	Which topology requires a central controller or hub?	
	(VIII	The data link layer takes the packets from and encapsulates them into frames for transmission. (a) network layer (b) physical layer (c) transport layer (d) application layer	
	(IX)	802.11 wireless networking uses what method as the media access method? a. CSMA/CD b. CTS/RTS c. CSMA/CA d. CSCD/CA	
	(X)	and the second s	
	(XI)	If a 120 V carrier peak changes from 170 V to 50 V by a modulating signal, find the modulation factors	
	{XII	Automatic repeat request error management mechanism is provided by	
		a) logical link control sublayer b) initial access control sublayer c) network interface control sublayer	
		Group-B (Short Answer Type Question) Answer any three of the following	[5 x 3 = 15]
		O Suplain	[5]
2.	W	hat are the different types of networks? Explain.	[5]
3.		ief Three functions of data link layer?	[5]
4.	Ho	ow does HDLC work?	[5]
5.	Wi	nat CSMA means? Why do we use it?	[5]
6.	Re	sponsibilities of the transport layer.	
		Group-C (Long Answer Type Question)	[15 x 3 = 45]
		Answer any three of the following	•
			[10]
7	(a)	Explain three controlled access method.	[5]
	(b)	Explain three controlled access metriod. A 4 Mbps token ring has a token holding timer value 10 ms. What is the longest frame that can be sent on	
		this ring?	[10]
8.	(a)	Difference between Token Bus and Token Ring network?	[5]
		Difference between CSMA/CD and CSMA/CA network?	[5]
9.	(a)	Describes the services provided by the PPP Protocol. If the window size is 15, give the sequence number of frames in Go-back-N ARQ and selective-repeat	[5]
	(p)		
	(c)	ARQ. Write a short note on channel allocation.	[5]
10		Difference between hub and switch?	[10]
10.	(d)	Difference companying and assessment	4 10

[5]
[7]
[3
[5

" END OF PAPER "