## **C.U.SHAH UNIVERSITY** Winter Examination – 2018

## Subject Name: Data Communication & Networking

S	Subject Code: 4CS03BNT1			Branch: B.C.A.					
S	Semeste	r: 3 Date: 01/	12/2018	Time: 02:30 To 05:	30 Marks: 70				
Ι	(2) ] (3) ]	ons: Use of Programmable c Instructions written on t Draw neat diagrams and Assume suitable data if	main answer book ar d figures (if necessar	e strictly to be obeye	1				
Q-1	a)	Attempt the following Radio waves are	-		(14				
	b)	(a) omni directional A one-to-many comn is classified as a	nunication between o	one source and a spec					
			(b) multicast		(d) point to point				
	c)	UDP and TCP are bo							
	,	(a) data link	(b) network	(c) transport	(d) interface				
	d)	In the OSI model, end	· /	· · · -					
	)	(a) Transport		(c) Presentation	(d) Application				
	e)	Which protocol data			(4)				
	•)	(a) bits	(b) frames	(c) packets	(d) segments				
	f)	MTU stands for		(•) promote	(0) 508				
					nsfer Unit				
		(c) Minimum Transm		(d) Maximum Transfer Unit					
	<b>g</b> )								
	8/	(a) Router	(b) Repeater	(c) Switch					
	h)	Keyboard is an exam		· · /	•				
		(a) Simplex							
	i)	UTP cables are conne	· · · · ·						
		(a) RJ – 65	(b) RJ – 45	(c) RJ – 35	(d) RJ – 25				
	<b>j</b> )	The message is broke							
	• 、	(a) data	(b) frame	(c) packet	(d) segment				
	<b>k</b> )	Which class of IP add							
	D	(a) Class A	(b) Class B	(c) Class C	(d) Class D				
	<b>l</b> )	IPv6 address has how (a) 64 bits	(b) 128 bits	(c) 32 bits	(d) 256 bits				
	m)	<b>D</b> 110D 1 1			(u) 250 0005				
	· · · · · · · · · · · · · · · · · · ·	(a) IP address	(b) MAC address	(c) URL	(d) None				



n)	WiMAX	stands	for
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- (a) Wireless maximum communication
- (b) Worldwide interoperability for microwave access(c) Worldwide international standard for microwave access
- (d) None of the above

## Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions:	
-	(1)	Explain about modes of data communication.	(5)
	(2)	What is network? Explain various types of network.	(5)
	(3)	Write short note: point to point connection and multipoint connection.	(4)
Q-3		Attempt all questions:	
	(1)	Explain about OSI reference model.	(7)
	(2)	What is network topology? Describe about any three network topologies.	(7)
Q-4		Attempt all questions:	
	(1)	Explain: Co-axial cable and Fiber optical cable.	(5)
	(2)	Describe about Infrared and Bluetooth.	(5)
	(3)	Differentiate between STP and UTP.	(4)
Q-5		Attempt all questions:	
L.	(1)	What is multiplexing? Explain about types of multiplexing.	(5)
	(2)	Define switching. Explain about switching techniques.	(5)
	(3)	Write short note on microwave.	(4)
Q-6		Attempt all questions:	
	(1)	Explain about repeater device and bridge device.	(5)
	(2)	Write short note: hub and wireless access point.	(5)
	(3)	Differentiate between IPv4 and IPv6.	(4)
Q-7		Attempt all questions:	
	(1)	What is IPv4? Explain about IPv4 addressing class.	(5)
	(2)	Describe on router device and gateway device.	(5)
	(3)	Differentiate between TCP and UDP.	(4)
Q-8		Attempt all questions:	
	(1)	Explain about ARP and RARP	(5)
	(2)	Describe about TCP/IP protocol suite network model.	(5)
	(3)	Describe about POP3 and IMAP4.	(4)

