Regis	tration No:	
Total Nu	imber of Pages: 2	<u>B.TECH</u> CS6G001
	6 th Semester Regular Examination 2017-18 COMPUTER NETWORK AND DATA COMMUNICATION	
210	BRANCH: CSE 210 210 Time: 32Hours 210 210 Max Marks: 100	210
	Q.CODE: C493 Answer Part-A which is compulsory and any four from Part-B. The figures in the right hand margin indicate marks. Answer all parts of a question at a place.	
210	Part – A (Answer all the questions) 210 210 210	210
Q1 a)	Answer the following questions: <i>multiple type or dash fill up type</i> Flow control is the responsibility of and layers of OSI Model?	(2 x 10)
b) c)	in encoding, the inversion at the middle of the bit interval is used	
²¹⁰ d)	for synchronization? ²¹ type of error detection method is based on concept of Redundancy?	210
e) f) g)	In Go Back N ARQ the window size in receiver side is always? Slotted aloha enhances the best possible throughput from% to%? In an optical fiber inner core is than cladding?	
h) i)	Connection establishment involves a handshake? A bridge has access to the address of a station on the same	210
210 j)	network? ²¹⁰ ²¹⁰ ²¹⁰ ²¹⁰ ²¹⁰ ²¹⁰ ²¹⁰ A subnet mask in Class A network has fourteen 1's.it can define no of subnets?	210
Q2 a)	Answer the following questions: <i>Short answer type</i> What is the difference between logical address and physical address? What do you mean by data communication? Mention the factors on which	(2 x 10)
210 C) d)	effectiveness of data communication depends? 210 210	210
e) f)	What do you mean by hamming code? Why is it needed? What is the diifrence between channel partitioning protocol and random access protocol? Give two examples for each?	
g) 21(h) i)	What are the advantages and disadvantages of static routing?	210

Q3	a) ²¹⁰ b)	Part – B (Answer any four questions) What do you mean by Transmission media? Describe different types of transmission media with advantages and disadvantages of each? ²¹⁰ Define multiplexing? Describe different types of multiplexing briefly?	(10) ²¹⁰ (5)
Q4	a) b)	Define Error? Describe different types of error briefly? Discuss various error detection methods with example? What is bridge? Describe different types of bridge briefly?	(10) (5)
Q5	210	What do you mean by flow control and Error control? Describe different types of flow control and Error control mechanisms with neat and clean diagram?	(15) ₁₀
Q6	a) b)	What is IPv4 and IPv6? What are the disadvantages of IPv4? Describe IPv6 packet format with neat and clean diagram? What are the advantages of IPv6? What is the difference between TCP and UDP?	(10) (5) ₂₁₀
Q7	b) 210 a) b)	What is ATM? Describe the architecture and various layers of Frame relay? What is CSMA/CD? Describe how it works?	(10) (5)
Q8	a) b) c) ²¹⁰	What is HTTP? Describe different types of HTTP? Define SMTP? Describe how it works? What is the difference between Wifi and Lifi?	(5) (5) (5) ₂₁₀
Q9	a) b) c) d) e)	Write short notes on any three RARP Bluetooth Fast Ethernet DDNS Repeater	(5*3)
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