Max. Marks:75



Time: 90 Minutes

December 2023

B. Tech (EEIOT) 5th Sem., December 2023

Computer Networks (EC-602)

Instructions: 1. It is compulsory to answer all the questions (1 marks each) of Part - A in short.

	des	Answer any three questions from Fure to in decim	
	3.	Different sub-parts of a question are to be attempted adjacent to each other.	
		PART -A	
01(a)	Which is	s more secured HTTP or HTTPs and why	(1.5)
(h)	How man	ny host are their in Class B IP addressing scheme.	(1.5)
(c)	For smal	Il size messages which protocol is used: TCP or UDP	(1.5)
(4)	Differenti	iate between explicit and implicit congestion control techniques	(1.5)
		mes of parameters for QoS	(1.5)
(6)	Give nan	vo mechanisms of closed loop congestion control mechanisms	(1.5)
(1)	Name tw	vo mechanisms of closed loop congestion control mechanisms	
		wo node loop instability problem	(1.5)
(h)		ue of HLEN in binary for TCP packet is '1100' then tell how many ext bytes are used.	ra (1.5)
(i)	Prove th	nat the channel capacity is equal to bandwidth when SNR is unity.	(1.5)
		nree phases of TCP congestion control	(1.5)
		PART-B	
Q2(a)	Explain (OSI 7 layer model in detail	(10)
(b)		toe Email is secured.	(5)
(-	,		
Q3(a)		tiate circuit switching in detail with all the phases with the help of a	(10)
		witched network.	~
(p))Differenti	iate between TDM and FDM in detail.	(5)
Q4	frames or	flow chart of slotted ALOHA. A slotted Aloha networks transmits 400 but a shared channel of 4000 Kbps. What is the throughput of the system is 100 nodes and one system produces 1000 frames/sec. Also give three fferences of pure and slotted ALOHA	
Q5(a)	Explain 1	Distance vector routing in detail with the help of an example netwo	rk. (10)
		various classes of IP addressing in detail	(5)
0((-)	P1-11	Token bucket algorithm for flow control in detail	(10)
Q6(a)			
(p)	Differenti	fate between fair queuing and weighted fair queuing strategies	(5)
Q7	Write sh	nort note on the following	(15)
	• T	FELNET	
	· F	FTP	

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