Reg. No.:

Question Paper Code: 49408

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Electronics and Communication Engineering

14UEC908 - HIGH SPEED NETWORKS

(Regulation 2014)

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Du	Ouration: Three hours		Maximum: 100 Marks	
	Answer ALL C	Questions		
	PART A - (10 x 1	= 10 Marks)		
1.	is a virtual-circuit wide-area networ	in response to		
	demands for a new type of WAN in the late	1980s and early 199	90s.	
	(a) X.25 (b) Frame Relay	(c) ATM (d)	None of the above	
2.	Which is not the service of IEEE 802.11?			
	(a) Association (b) Reassociation	(c) Disassociation	(d) None of these	
3.	process counts the number of arrivals, each of which has a exponential distributed time between arrival.			
		(b) Markov arrival (d) Little's law		
4.	can be applied in a logical connection used for connection oriented netwo to reduce traffic.			
	•	(b) Policing(d) Implicit congest	ion signaling	
5.	n Congestion, traffic descriptors are qualitative values that represent a			

(a) Data Protocol (b) Data Flow (c) Data Congestion (d) Data Traffic

6.	In ABR mechanism,	has feedback to the source concerning congestion	1.		
	(a) Closed loop control(c) Both (a) and (b)	(b) Open loop control(d) None of these			
7.	surce makes a reservation, it needs to define a				
	(a) Flow Control(c) Flow Solution	(b) Flow STCP(d) Flow Specification			
8.	A router that supports DS policie	s is called as			
	(a) DS node(c) DS boundary node	(b) DS interior node(d) DS external node			
9.	specifies a distinct reservation for each sender and provides an explicit l senders.				
	(a) Wild-card-filter style(c) Shared-explicit style	(b) Fixed-filter style(d) Shared-implicit style			
10	The parameters of QoS are				
	(a) Jitter, bandwidth	(b) Delay			
	(c) Both (a) and (b)	(d) None of the above			
	PAR	Γ - B (5 x 2 = 10 Marks)			
11.	1. Differentiate frame relay from X.25 packet switching services				
12.	2. What are the single server queues.				
13.	Define sustainable cell rate. What is the use of SCR?				
14.	. List the design goals of RED.				
15.	What are the functions performed by RTCP?				
	PART	$C - C (5 \times 16 = 80 \text{ Marks})$			
16.	(a) Explain ATM protocol archiv	tecture with neat diagram	(16)		
		Or			
	(b) Explain about the IEEE 802.	11 architecture in detail.	(16)		
17.	(a) Illustrate and explain the Founeat sketches.	ar regions of Single Server Queuing model with	(16)		
		Or			

(b) (i) Describe the effects of congestion. Explain the various techniques.	congestion control (8)
(ii) Explain the various frame relay congestion control technique	es. (8)
18. (a) Explain TCP congestion control in detail	(16)
Or	
(b) Explain ABR Traffic management in detail	(16)
19. (a) (i) List out the components of ISA? Explain.	(8)
(ii) Illustrate with example and explain Fair Queuing (FQ) a Queuing (BRFQ).	and Bit Round Fair (8)
Or	
(b) Explain differentiated services in detail.	(16)
20.(a) Write notes on	(16)
(i) RTP	
(ii) RTCP.	
Or	
(b) Explain the Resource Reservation Protocol (RSVP) operation by characteristics.	giving its goals and (16)