	Reg. No. :											
	Question Pap	er Cod	e: 4	148	3							
	B.E. / B.Tech. DEGREE	E EXAMI	NAT	ΓΙΟΝ	I, M	AY 2	2017					
		Elective										
	Electronics and Co	mmunica	ition	Engi	neer	ing						
	14UEC908 - HIG	H SPEEI	O NE	ETW	ORK	XS						
	(Regu	ulation 20	14)									
Du	ration: Three hours						Max	imuı	m: 10	00 M	Iarks	
	Answer	ALL Que	estio	ns								
	PART A - (	$(10 \times 1) =$	10 M	larks	)							
1.	In ATM, the information flow on each packets called	ch logical	con	necti	on i	s org	ganiz	ed i	nto f	ixed	size	
	(a) Frames (b) Cells	(c)	) Pac	kets			(d) F	Plane	S			
2.	Which is not the service of IEEE 802.1	11?										
	(a) Association (b) Reassociation	tion (c)	Disa	assoc	ciatio	n	(d) N	Vone	of th	nese		
3.	process counts the num distributed time between arrival.	nber of ar	rival	s, ea	ch of	f whi	ich h	as a	expo	nent	tially	
	<ul><li>(a) Kendalls notation</li><li>(c) Poisson</li></ul>	` '		rkov :le's :		val						
4.	can be applied in a logica					onne	ction	ı orie	ented	l net	work	
	to reduce traffic.					011110	••••	. 011			,, 0111	
	(a) Back pressure	•		icing								
	(c) Chock packet	(d)	) Imp	olicit	cong	gesti	on si	gnali	ing			
5.	Which is the retransmission strategy in	the impl	emer	ntatio	n of	TCF	?					
	(a) First-only (b) Batch	(c)	Indi	ividu	al		(d) A	\11 th	e ab	ove		

6.	In ABR mechanism,	has feedback to the source concerning congestion.	
	(a) Closed loop control	(b) Open loop control	
	(c) Both (a) and (b)	(d) None of these	
7.	is the process of se	tting the DS code point in a packet.	
	(a) Behaviour Aggregate	(b) Classifier	
	(c) Marking	(d) Dropping	
8.	A router that supports DS policie	s is called as	
	(a) DS node	(b) DS interior node	
	(c) DS boundary node	(d) DS external node	
9.	•	servation for each sender and provides an explicit list	of
	senders.		
	(a) Wild-card-filter style	(b) Fixed-filter style	
	(c) Shared-explicit style	(d) Shared-implicit style	
10.	Which is not the function of RTC	P?	
	(a) QoS and Congestion cont	rol (b) Identification	
	(c) Session control	(d) All the above	
	PAR	$\Gamma$ - B (5 x 2 = 10 Marks)	
11.	Differentiate frame relay from X	25 packet switching services	
12.	Define BECN.		
13.	Define sustainable cell rate. Wha	t is the use of SCR?	
14.	List the design goals of RED.		
15.	Define RSVP.		
	PART	$- C (5 \times 16 = 80 \text{ Marks})$	
16.	(a) Describe in detail about the	ATM adaptation layers. (1	6)
		Or	
	(b) Explain about the IEEE 802.	11 architecture in detail. (1	6)

17.	(a)	(i) Give the fundamental task of queuing analysis? What are the different ways o developing a queuing model? Explain how analysis is done for various models (8)
		(ii) Explain about single server queue. (8
		Or
	(b)	(i) Describe the effects of congestion. Explain the various congestion contro techniques.
		(ii) Explain the various frame relay congestion control techniques. (8)
18.	(a)	Explain the retransmission timer management techniques used in TCP and also explain the window management techniques used in TCP for congestion control (16)
		Or
	(b)	Describe about GFR traffic management. (16)
19.	(a)	(i) List out the components of ISA? Explain. (8)
		(ii) Illustrate with example and explain Fair Queuing (FQ) and Bit Round Fair Queuing (BRFQ). (8)
		Or
	(b)	Show how random early detection is used to control congestion in networks. (16
20.	(a)	Describe in detail about MPLS and its operation. (16)
		Or
	(b)	Explain the Resource Reservation Protocol (RSVP) operation by giving its goals and characteristics. (16)