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Reg. No. :										
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(d) Global processor sharing

Question Paper Code: 59407

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

Elective

Electronics and Communication Engineering 15UEC907– HIGH SPEED NETWORKS

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks Answer ALL Questions PART A - $(5 \times 1 = 5 \text{ Marks})$ 1. Logical connections in ATM are referred to as CO1-R (a) Virtual connectivity channel (b) Visual channel connections (c) Virtual cable connections (d) Virtual channel connections Arrival process and the service process is defined by Markov process CO2-R and it has a (a) Normal probability density function (b) Exponential probability density function (c) Logarithmic probability density function (d) Decibel probability density function TCP flow control CO₃- R 3. (a) Uses a form of sliding window (b) Uses a form of backward window (c) Uses a form of forward window (d) Uses a form of random window GPS means in the subject of High speed networks 4. CO4-R (a) Global positioning system (b) Generalized processor sharing

(c) Generalized probability sharing

5. **RSVP** CO5-R

(a) is network layer protocol that enables to provide a differentiated levels of service

- (b) is a presentation layer protocol that enables to provide a differentiated levels of service
- (c) is a physical layer protocol that enables to provide a differentiated levels of service
- (d) is a transport layer protocol that enables to provide a differentiated levels of service

PART - B (5 x 3= 15 Marks)

- 6. Discuss about ATM Protocol Architecture CO1-U 7. Summarize the reasons for network congestion CO2-U 8. Explain the TCP flow control functions CO₃- U 9. CO4-U Describe the three categories of ISA services 10. Discuss RTCP packet types CO5-U $PART - C (5 \times 16 = 80 \text{ Marks})$
- 11. (a) (i) Explain the Frame relay protocol stack with a X.25.Also brief on CO1-U (8) LAPF.
 - (ii) Explain the ATM cell header format. CO1-U (8)

Or

- (b) (i) Describe what is wireless LANS. Give its main applications. CO1- U (8)
 - (ii) Discuss the most important requirements for wireless LANs. CO1- U (8)
- Summarize the various queue parameters in a network? Also explain CO2- U 12. (a) (16)multi server queue system

Or

- (b) Discuss the objectives and techniques for frame relay congestion CO2 -U (16)control. Also describe traffic rate management in a frame relaying network.
- (i) Explain the features of KARN's Algorithm. what are the rules CO₃- U 13. (a) (8)used?
 - (ii) Explain the ATM traffic control functions. CO3- U (8)

Or

	(b)	(i) Explain slow start technique in TCP window management. Also mention the limitations of it.	CO3- U	(8)
		(ii) Discuss about TCP over UBR.	CO3- U	(8)
14. (a)		(i) Summarize the various components of ISA architecture .Explain the functions of each.	CO4- U	(8)
		(ii) What do you mean Random early detection (RED).Also brief on RED design goals.	CO4- U	(8)
		Or		
(b)	(i) Compare and contrast FIFO and weighted Fair queuing .	CO4- U	(8)	
		(ii) Explain the various Differentiated services traffic conditioner.	CO4- U	(8)
15.	(a)	What is RSVP? what are its characteristics? Also explain its protocol mechanism.	CO5- U	(16)
		Or		
	(b)	Explain the MPLS features and operation? Also mention the importance of Label stacking	CO5- U	(16)