

C

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 59407

B.E./B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Electronics and Communication Engineering

15UEC907 – HIGH SPEED NETWORKS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The Maximum size of payload field in Ethernet frame is CO1- R
(a) 1000 bytes (b) 1300 bytes (c) 1500 bytes (d) 1200 bytes
2. Closed-Loop control mechanism try to CO2- R
(a) Remove after congestion occurs (b) Remove after some time
(c) Prevent before congestion occurs (d) Prevent before sending Packets
3. In ATM for the best effort delivery service ,that does not CO3- R
guarantee anything else is
(a) CBR (b) ABR (c) VBR (d) UBR
4. Integrated Services is based on flow based Quality of Service CO4- R
model designed for
(a) CPU (b) Data Node (c) IP (d) Traffic shaping
5. Protocol designed to handle the real time traffic is CO5- R
(a) TCP (b) UDP (c) RTP (d) None of the above

PART – B (5 x 3= 15Marks)

6. List the AAL services. CO1- R
7. Compare Multi server and Multiple single server queues . CO2- R
8. Define sustainable cell rate. What is the use of SCR? CO3- R
9. How random early detection helps in congestion avoidance? CO4- R

10. Draw the diagram which shows the relationship among session, flowspec and filter spec. CO5- R

PART – C (5 x 16= 80Marks)

11. (a) Discuss the features of ATM and which aspects of the ATM network architecture depend on the fixed length nature of ATM cells? CO1- U (16)

Or

- (b) Discuss the main features of fast Ethernet and compare it with other types of high speed LAN. CO1- U (16)

12. (a) Explain the working of single server queue in detail. CO2- U (16)

Or

- (b) Describe the effects of congestion. Explain the various congestion control mechanisms used in packet switching techniques. CO2- U (16)

13. (a) (i) Explain KARN'S Algorithm CO3- U (8)
(ii) Discuss the ABR and GFR service categories in ATM network CO3- U (8)

Or

- (b) Explain the additive increase and multiplicative decrease behavior of ATM Network. CO3- U (16)

14. (a) Discuss the approach and components of ISA. CO4- U (16)

Or

- (b) Write short notes on CO4- U (16)
(i) BRFQ
(ii) WFQ

15. (a) Explain the resource reservation protocol operation by giving its goals and characteristics. CO5- U (16)

Or

- (b) Draw the RTP protocol architecture. Also draw the RTP header format and explain the significance of each field. CO5- U (16)