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Reg. No. : | | | | | | | | | | |

Question Paper Code: 55404

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Electronics and Communication Engineering

15UEC504- DATA COMMUNICATION AND NETWORKS

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which layer is responsible for process to process delivery? CO1- R

   (a) Network layer (b) Data link layer (c) Transport layer (d)Session layer

2. The Stop-And-Wait ARQ, Go-Back-N ARQ and Selective Repeat ARQ are for _____. CO2- R

   (a) Noiseless Channel (b) Noisy Channel (c) Either (a) or (b) (d) Neither (a) or (b)

3. The header length of an IPv6 datagram is _____ CO3-R

   (a) Unicast (b) Both Unicast & Multicast (c) Multicast (d) None of these

4. Any system that involves waiting leads to _____. CO4- R

   (a) 10bytes (b) 25bytes (c) 30bytes (d) 40bytes

5. The file transfer protocol is built on CO5- R

   (a)Data centric architecture (b)Service oriented architecture

   (c)Client server architecture (d)none of the mentioned

PART – B (5 x 3= 15 Marks)

6. Distinguish between ADSL and SDSL. CO1- R
7. Define flow control and error control. CO2- U
8. Differentiate between IPv4Address and IPv6 Address. CO3- U
9. What are the types of QoS? CO4- R
10. What are the transmission modes of FTP? CO5- App

PART – C (5 x 16= 80Marks)

11.	(a)	Explain in detail various guided transmission media	CO1- U	(16)
		Or		
	(b)	(i) Describe in detail about the various network topologies.	CO1- U	(12)
		(ii) Explain in brief about the TCP/IP model.	CO1- U	(4)
12.	(a)	Explain the operation ofsliding window protocol with neat diagram.	CO2- U	(16)
		Or		
	(b)	With neat Sketch, describe in detail about Ethernet.	CO2- U	(16)
13.	(a)	Write short notes on following terms. (i) ICMP (ii) RARP	CO3- U	(16)
		Or		
	(b)	Explain in detail about link state routing..	CO3- U	(16)
14.	(a)	Draw and explain the structure of TCP segment.	CO4- U	(16)
		Or		
	(b)	(i) Define QoS. Elaborate the characteristics of QoS.	CO4- U	(8)
		(ii) Explain in detail about congestion control	CO4- U	(8)
15.	(a)	Explain in detail about Electronic Mail & HTTP.	CO5- U	(16)
		Or		
	(b)	Explain in detail about symmetric-key cryptography with neat sketch.	CO5- U	(16)