393 : D-xviiiMyp65 Con. 2628-05. ring aco,

subb- CCN

(REVISED COURSE)

AM-9760

(3 Hours)

[Total Marks: 100

N.B. (1) (2) (3)	Question No. 1 is compulsory. Attempt any four questions out of the remaining six questions as per the instructions. Answers to sub-questions should be answered one below the other in the answers.		
	Q1[A] Draw the layered OSI network architecture .Explain the functions of each layer and show the path of actual & virtual communication between the layers. Q1[B]What is character-based framing and bit oriented framing	[10] [10]	
	Q2[A]What is sliding window protocol ?Explain n-bit sliding window protocol With suitable example. Q2[B]Explain following internet services :- (i) E-mail (ii)FTP (iii)Telnet	[10] [10]	
	Q3[A]Explain three types of transmission impairments in communication network For extremely noisy channel give the channel capacity. What is your observation? Q3[B]List various networking protocol .Explain in detail Ethernet	[10] [10]	
ele or	Q4[A]Describe Point to Point Protocol? What are the difficulties for having mobile IP? What can be the solution? Q4[B]Explain the need of encryption .Explain in detail cipher block chaining	[10] [10]	
	Q5[A]Explain TCP header in brief .Compare TCP and UDP Q5[B]Draw IPv4 & IPv6 header ,explain each field in brief & compare them?	[10] [10]	
	Q6[A]What is CSMA/CD network ?Compare the throughput or departure rate of CSMA/CD with Pure Aloha, Slotted Aloha and CSMA Q6[B]Explain the most frequently used class of Flow control methods and rate cont methods	[10] trol [10]	
	Q7.Write short note on the following(any three) 1)ISDN & Broadband ISDN 2)SMTP & MIME 3)Asynchronous Transfer Mode	[20]	

4)X.25 networks
5)Internetworking. Smt. Indira Gandhi College of Engineering
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