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Code	e No: 135AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	
	P. Toch III Vear I Semester Examinations, December - 2019	
A CTime	DATA COMMUNICATION AND COMPUTER NETWORKS (Common to CSE, IT) Max. Marks: 75	À
	this two ports A and R	
Note:	: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries	
AG	10 marks, and may have a, b as sub questions. PART A	j. A
A Same	(25 Marks)	
1.a) b)	How are computer networks classified on the basis of physical size? List the difference between logical, physical and port addresses. How would you describe access point? Illustrate the function of hop by hop flow control.	<u> </u>
f) g) h)	What is meant by Tunneling? Based on what you know, generalize the term Network Address Translation. Discover the processes involved in process-to-process delivery. Measure the performance of TCP State Transition Control. [2]	4 /
AG 10	What is the need of FTP? What information would you use to examine the view of DNS? PART B (50 Marks)	j A
2.a) b)	Examine OSI architecture with neat diagram. Evaluate and explain about your understanding about network [5+5]	
△ 3. 4.	Explain in detail about the different phases of Virtual — Circuit networks. How performance is improved in CSMA/CD protocol compared to CSMA protocol? Explain.	<u> </u>
	OR	
5.	Use IEEE 802.3 and IEEE 802.11 to generalize the differences between wired and wireless LANS. [10]	~
AG:	Why subnetting is necessary? With suitable example develop the concept of subnetting in class B network. OR	j A
7.a) b)	How would you summarize the services expected from the network layer? Describe in detail the operation of OSPF protocol by considering a suitable network. [5+5]	
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8.a) b) A 9.	How would y and fast record Describe wi formulated in Describe the Explain the o	th examples the	OR OR MEChaniork management	sm/s by which in detail.	congestion cont	[10] [5+5]	A
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