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Code No: 117BY JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, April/May - 2018 COMPUTER NETWORKS (Common to ECE, EIE) Max. Marks: 75 Time: 3 Hours 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 10 marks and may have a, b, c as sub questions. PART- A (25 Marks) [2] What is Internet? 1.a) [3] What are the advantages and disadvantages of optical fiber? b) [2] Mention the functions of Hub. c) Explain why there is no need for CSMA/CD on a full duplex Ethernet LAN. [3] d) 2 What is the purpose of subnetting? e) What are the three main elements of distance vector routing algorithm? [3] f) 121 Explain Tunneling. g) [3] Explain the socket primitive of TCP. h) [2] Explain the status codes of HTTP client error. i) [3] Compare HTTP and FTP. j) PART-B (50 Marks) Explain about the sliding window protocol. 2.a) [5+5]Distinguish between OSI and TCP/IP reference model. b) Explain about the Go-Back-N ARQ protocol. 3.a) [5+5]Explain checksum with an example. b). Explain about CSMA protocols. 4.a) [5+5]Explain about the spanning tree bridge. b) OR Explain about the IEEE 802.3 frame. 5.a) [5+5]Explain about the types of bridges. b) Explain about the hierarchical routing algorithm. 6.a) Distinguish between connectionless and connection oriented networks. [5+5] Explain how congestion is controlled in network layer. 7.a)[5+5]Explain the working of Packet Switched Networks. b)

ġ _Ę ,	8.a) Explain the various steps that are followed in releasing a TCP connection. b) Explain about ARP. OR	[5+5]
	9.a) Draw a state diagram for simple connection management scheme.b) Distinguish between IPv4 and IPv6.	[5+5]
3 R	 10. Discuss how simple mail transfer protocol works? Can multimedia m transmitted using SMTP? OR 11.a) Explain about the TCP timer management. b) Explain the payload types of Real Time Transport Protocol. 	essages b [10]
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