Code No: 125DT/115DT

Time: 3 hours

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2021 COMPUTER NETWORKS

(R15-Common to CSE, IT; R13-Common to CSE, IT)

Max. Marks: 75

R15/R13

Answer any five questions All questions carry equal marks

1.a)	Describe TCP/IP reference model with a neat diagram and compare TCP/IP with ISO-OSI reference model.
b)	What are the advantages of Fiber optic cables? Enumerate the functionalities of Fiber Optic Cables with a neat diagram. [8+7]
2.a)	What is CRC? Discuss about CRC method for error detection with suitable example.
b)	Explain about Go, Back_N sliding window protocol. List out its drawbacks. [7+8]
3.a)	Differentiate Pure ALOHA and Slotted ALOHA.
b)	Compare and contrast the network devices repeaters, hubs, bridges and switches. [7+8]
4.	What is the functionality of Ethernet MAC sub layer? Explain each field in Ethernet
	Frame with a neat diagram. [15]
5.a)	Explain about hierarchicateouting algorithm with suitable example.
b)	Discuss about count-to infinity problem. How to overcome it? [7+8]
6.	What is Congestion? How to avoid congestion? Explain about Token bucket algorithm
0.	for traffic sharing with a neat diagram. [15]
7.a)	Explain about DHCP protocol frame format in detail.
b)	What are the benefits of ICMP protocol?[8+7]
8 a)	What is DNS2 Exclaim DNS structure for Internet
8.a) b)	What is DNS2 Explain DNS structure for Internet.What is the sliding window protocol involved in TCP connection? Discuss.[7+8]
UJ	what is the sharing window protocol involved in Ter connection? Discuss. [/+8]

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