

R17

Code No: 843AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, October/ November - 2020

COMPUTER NETWORKS

Time: 2 Hours

Max.Marks:75

Answer any five questions
All questions carry equal marks

- 1.a) Differentiate between Connection-Oriented Vs Connectionless Service.
b) Explain briefly about the Twisted-pair Cables. [7+8]
2. Draw and explain the functionality of each layer in TCP/IP Reference model. [15]
- 3.a) Illustrate how parity bit can be to detect error in the transmitted frame.
b) Explain about the working procedure of Slotted ALOHA. [7+8]
4. What is the drawback in GO-Back-N sliding window protocol? Explain how it is solved by Selective Repeat protocol. [15]
- 5.a) Describe in detail about the Hierarchical routing.
b) Explain how the tunneling of packet is done from one place to another. [7+8]
6. Illustrate shortest path routing algorithm with suitable example. [15]
7. Draw and explain each field of TCP Segment Header. [15]
- 8.a) What are the typical elements of a User Agent Interface in E-Mail? Explain.
b) Explain briefly about the Audio Compression. [7+8]

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