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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