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Code No: 843AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, July/August - 2021
COMPUTER NETWORKS

Time: 3 Hours **Max.Marks:75**

Answer any five questions
All questions carry equal marks
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1. Explain the TCP/IP reference model with neat diagram. [15]

2.a) Compare the optical fiber over copper wire.
b) Explain Go – Bank – N sliding window protocol with clear illustrations. [7+8]

3.a) What is pure ALOHA and slotted ALOHA? Explain.
b) Discuss the stop and wait ARQ protocol in detail. [7+8]

4. Write a short note on
a) 1-persistent CSMA
b) Non-persistent CSMA
c) P-persistent CSMA. [5+5+5]

5.a) Compare Virtual-Circuit and Data gram Networks.
b) Draw and explain the header format of IPv6. [7+8]

6.a) Explain the five parts of the link state routing with an example.
b) Discuss Dynamic Host Configuration Protocol and Address Resolution Protocol. [7+8]

7.a) Differentiate between UDP and TCP.
b) Explain Congestion control algorithms in detail. [7+8]

8.a) Differentiate between FTP and HTTP.
b) Give a brief explanation about Electronic mail. [7+8]

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