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## 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

Explain the TCP/IP reference model with neat diagram. 1. [15] 2.a) Compare the optical fiber over copper wire. Explain Go – Bank – N sliding window protocol with clear illustrations. [7+8]b) 3.a) What is pure ALOHA and slotted ALOHA? Explain. Discuss the stop and wait ARQ protocol in detail. b) [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. Draw and explain the header format of IPv6. b) [7+8]

Explain the five parts of the link state routing with an example. 6.a)

Discuss Dynamic Host Configuration Protocol and Address Resolution Protocol. [7+8] b)

Differentiate between UDP and TCP 7.a

Explain Congestion control algorithms in detail. b) [7+8]

Differentiate between FTP and HTTP. 8.a)

Give a brief explanation about Electronic mail. b) [7+8]

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