Paper / Subject Code: 41022 / Computer Network & Network Design

1T01234 - S.E.(Information Technology Engineering)(SEM-IV)(Choice Base Credit Grading System) (R- 20-21) (C Scheme) / 41022 -

Computer Network & Network Design

QP CODE: 10012566 DATE: 12/12/2022

(3 Hours)

Total Marks: 80

20 M

N.B.: (1) Question No.1 is compulsory.

- (2) Attempt any three questions from the remaining five questions.
- (3) Make suitable assumptions wherever necessary but justify your assumptions.

Q.1. a. Explain TCP/IP Reference Model.	05 M
b. Explain Sliding Window Protocol.	05 M
c. Explain different classes of IPv4 Addresses.	05 M
d. Explain Domain Name System	05 M
Q.2.a. Explain ISO-OSI reference Model	10 M
Q.2.b.What is Network Address translation? Explain.	10 M
Q.3.a. Briefly explain TCP header with a diagram.	10 M
Q.3.b. What are different UDP Applications?	10 M
Q.4.a. Explain IPv6 Header with a diagram.	10 M
Q.4.b. Explain Fast Ethernet and Gigabit Ethernet.	10 M
Q.5.a. Compare Lossy Compression and Lossless Compression.	10 M
Q.5.b. Explain HTTP Protocol.	10 M

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Q.6. Write short notes on (Any Two)

b. VLAN

c. Routing Algorithms.

a. Congestion Control
