Enrollment No: _____ Exam Seat No:_____

C. U. SHAH UNIVERSITY

Winter Examination-2019

Subject Name : Next Generation Networks

Subject Code : 4TE08NGN1 **Branch: B.Tech (CE)**

Semester : 8 **Date : 17/09/2019** **Time : 10:30 To 01:30** **Marks : 70**

Instructions:

(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Attempt the following questions:** **(14)**

a) Define: Network Address
b) Define: RIP
c) Define: OSPF
d) Define: BGP
e) Define: BOOTP
f) Define: Socket
g) Define: Syslog
h) Differentiate: Protocol and Standard
i) Differentiate: Bridge and Switch
j) Differentiate: ICMP and IGMP
k) Differentiate: Subnetting and Supernetting
l) Differentiate: Interior and Exterior Routing
m) Differentiate: Flow Control and Error Control
n) Differentiate: Iterative Server and Concurrent Server

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions**

a) Explain Transport Layer and Application Layer Protocol in TCP/IP Suit. **(07)**
b) Explain LAN, Point-to-Point WAN, Switched WAN. **(07)**

Q-3 **Attempt all questions**

a) Write a note on ARP and RARP. **(07)**
b) Explain IP Addressing using Classful and Classless Addresses. **(07)**

Q-4 **Attempt all questions**

a) Write a note on DVMRP and MBONE. **(07)**
b) Explain Multicast Distance Vector Routing with examples. **(07)**

Q-5 **Attempt all questions**

a) Explain State Transition diagram for Transport Layer. **(07)**

b) Explain TCP Header with suitable diagram. **(07)**

Q-6 **Attempt all questions**

a) Explain OSPF algorithm. **(07)**

b) Explain UDP Client Server Procedure with suitable diagram. **(07)**

Q-7 **Attempt all questions**

a) Write a note on daemon process and syslog. **(07)**

b) Explain the I_net Daemon procedure with suitable example. **(07)**

Q-8 **Attempt all questions**

a) Explain different technologies regarding transition from IPv4 to IPv6 address. **(07)**

b) Differentiate: IPv4 and IPv6. **(07)**