SF - 222

Seat No.	

Total No. of Pages :2

S.E. (CSE) (Part - II) (Semester - IV) (Revised) (Theory) Examination, November - 2017
COMPUTER NETWORKS
Sub. Code: 63532

Day and Date :Thursday, 02 - 11 - 2017 **Total Marks : 50**
Time :9.30 a.m. to 11.30 a.m.

Instructions :
1) **Solve any TWO questions from each section.**
2) **Figures to the right indicate full marks.**
3) **Attempt any one Question from Q.4 to Q.5.**
4) **Q.6 is compulsory.**
5) **Assume suitable data if necessary.**

SECTION-I

Q1) a) With neat diagram explain Store-and-Forward Packet Switching. **[6]**

b) With context to routing within a datagram network discuss about Implementation of connectionless Service. **[6]**

Q2) a) Change the following IPv4 addresses from dotted-decimal notation to binary notation. **[6]**

i) 111.56.45.78

ii) 221.34.7.82

b) In context to IPv6 write about **[6]**

i) Unicast Addresses

ii) Multicast Addresses

iii) Anycast Addresses

P.T.O.

Q3) a) With explanation Write about any TWO policies that cause congestion in network layer. **[4]**

b) Explain how Hop-by-Hop Choke Packets technique is used for Congestion Control in Datagram Subnets. **[3]**

c) With neat diagram write a short note on Token Bucket Algorithm. **[6]**

SECTION-II

Q4) a) Explain the working of RSA Algorithm with the help of example and mention the level of Security in RSA. **[7]**

b) Explain the two army problem in connection release of transport layer. **[6]**

Q5) a) Define the terms **[6]**

i) Transport Entity

ii) TPDU

iii) TSAP & NSAP

b) List the states used in TCP connection management finite state machine. **[3]**

c) Describe the architecture and services of Email. **[4]**

Q6) Write a short note on (any three) **[12]**

a) Domain name space

b) World wide Web

c) FTP

d) Crash recovery