Seat No.	

SL-462

Total No. of Pages :2

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

Day and Date :Thursday, 27 - 04 - 2017
Time :9.00 a.m. to11.00 a.m.

Total Marks : 50

Instructions :
1) **Attempt any one question from Q.4 to Q.5.**
2) **Q.6 is compulsory.**
3) **Solve any two questions from each section.**
4) **Figures to the right indicate full marks.**

SECTION-I

Q1) a) Write an algorithm for Dijkstra Shortest Path Algorithm. **[6]**

b) What is "Count to infinity" problem? How this problem is solved in link state routing? Write only names of five parts. **[6]**

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

i) 10000001 00001011 00001011 11101111

ii) 11000001 10000011 00011011 11111111

b) Discuss about which problem solved by Network Address Translation (NAT) and how. **[6]**

Q3) a) With explanation write about any Two policies that cause congestion in data link layer. **[4]**

b) Explain about admission control technique used Congestion Control in Virtual-Circuit subnets. **[3]**

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

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SECTION-II

Q4) a) Explain the Berkeley Sockets Primitive for TCP. **[7]**

b) Draw and explain the Encryption model. **[6]**

Q5) a) Explain the addressing scheme of transport connection. **[6]**

b) List and explain the DNS Resource Record types for IPV4. **[7]**

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

a) Electronic Mail.

b) Name Server.

c) Forbidden region.

d) Multiplexing.

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