SV - 197

Seat No.	

Total No. of Pages : 2

S.E. (Computer Science and Engineering) (Semester - IV) (Revised) Examination, May - 2019

COMPUTER NETWORKS

Sub. Code : 63532

Day and Date : Thursday, 16 - 05 - 2019 **Total Marks : 50**

Time : 02.30 p.m. to 04.30 p.m.

Instructions :
1) **Solve any two questions from each section.**
2) **Figures to the right indicate full marks.**
3) **Assume suitable data whenever necessary.**

SECTION - I

Q1) a) Write a short note comparison of virtual-circuit and datagram networks. [7]

b) Explain count-to-infinity problem. [5]

Q2) a) Write a short note on classful addressing. [6]

b) Explain following with reference to classful addressing. [6]

i) Subnetting
ii) Supernetting
iii) Address Depletion

Q3) a) In brief explain any two following regarding congestion control in datagram subnets. [6]

i) The Warning Bit
ii) Choke Packets
iii) Hop-by-Hop Choke Packets

b) With neat diagram explain leaky bucket algorithm. [7]

SECTION - II

Q4) a) Explain the Berkeley socket primitives for TCP. [7]

b) Discuss the connection establishment procedure in transport protocol. [6]

P.T.O.

Q5) a) Draw and explain architecture of WWW. **[6]**

b) Describe DNS message in detail. **[6]**

Q6) a) Explain the symmetric key encryption algorithm. **[6]**

b) Explain rotation cipher. In asymmetric-key cryptography, how do you think two persons can establish two pairs of keys between themselves? **[6]**

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