

Seat No.	
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SV - 817

Total No. of Pages : 2

**S.E. (Computer Science & Engineering) (Semester = IV)
(New) Examination, May - 2018**

COMPUTER NETWORKS

Sub. Code: 63532

**Day and Date : Monday, 07 - 05 - 2018
Time : 9.30 a.m. to 11.30 a.m.**

Total Marks : 50

- Instructions :**
- 1) Attempt any two questions from each section.
 - 2) Figures to the right indicate full marks.
 - 3) Assume suitable data whenever 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) 128.12.12.229
 - ii) 192.169.10.10
 - iii) 111.56.45.78
- b)** In context to IPv6 write about [6]
- i) Unicast Addresses
 - ii) Multicast Addresses
 - iii) Anycast Addresses

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- Q3) a)** What is "Count to infinity" problem? How this problem is solved in link state routing? Write only names of five parts. [6]
- b)** With neat diagram write a short note on RSVP-The Resource reSer Vation Protocol. [7]

SECTION-II

- Q4) a)** What is two-army problem? Discuss. [3]
- b)** Write a short note on UDP header. [4]
- c)** Explain the socket system call regarding socket programming. [5]
- Q5) a)** Draw the diagram for the A portion of the Internet domain name space. Explain DNS name space. [6]
- b)** What are the three types of keys used in cryptography? Explain in brief. [3]
- c)** Explain the following terms. [3]
- i) Plaintext
 - ii) Ciphertext
 - iii) Key
- Q6) a)** Explain three-way handshake concept. [5]
- b)** Explain the following system call regarding socket programming. [8]
- i) recv
 - ii) sendto

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