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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)
June / July 2014 Semester End Make Up Examinations

Course: Computer Networks
Course Code: 10CI6GCCON

Duration : **3 hours**
Max Marks: 100
Date: 09.07.2014

Instructions: Answer five full questions choosing one from each unit.

UNIT 1

1 a. Packet switching is more suitable than message switching for interactive   05
       applications. Justify?
  b. Illustrate the role of VCC and VP in ATM.   08
  c. Describe Flooding, its disadvantage and ways to control Flooding.   07

UNIT 2

2 a. Explain TCP State Transition diagram.   08
  b. Explain the different stages of OSPF operation in detail.   12

OR

3 a. What is the need for Subnet addressing? A host in an organization has an IP   10
       address 150.32.64.34 and a subnet mask 255.255.240.0. What is the address
       of the Subnet ? What is the range of IP address that a host can have on this
       subnet.
  b. What is policing ? Explain an algorithm used for policing   10

UNIT 3

4 a. How are rules for describing managed objects represented in Structure of   07
       Management Information? With an example explain object identifier tree for
       internet.
  b. Explain the cryptographic checksums and hashes available.   07
  c. Explain the non preemptive priority queue scheme for integrated service   06
       approach.

OR

5 a. Explain the TLS handshake protocol process.   07
  b. How is resource allocation processed in ATM networks?   07
  c. How is peer-to-peer connection maintained in overlay networks?   06

UNIT 4

6 a. Explain the different steps in H.323 protocol signaling   10

    b. Explain JPEG process for production and compression of Still images.   10

UNIT 5

7 a. List the security vulnerabilities in Ad-hoc networks and Explain types attacks on   06
       Ad-hoc networks.

    b. Explain Zigbee technology and IEEE 802.15.4 standard.   04

    c. List the different criteria's for secure routing protocol.   04

    d. Write DEEP clustering algorithm.   06

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