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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

July / August 2014 Supplementary Examinations

Course: Computer Networks
Course Code: 10CI6GCCON

Duration : 3 hours
Max Marks: 100
Date: 02.08.2014

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

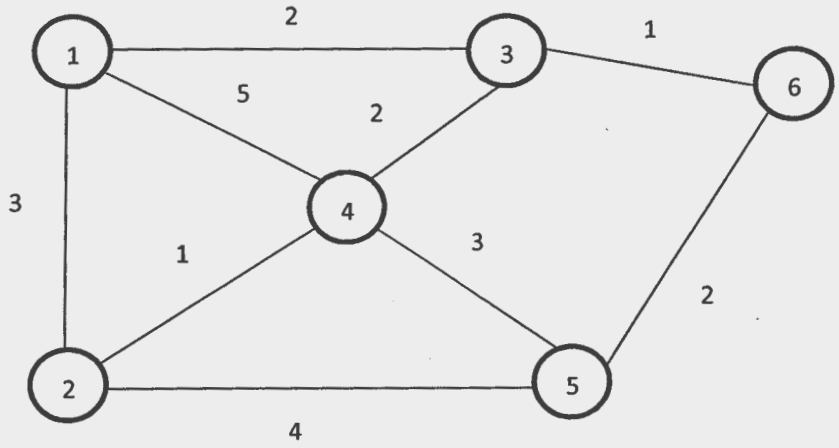
UNIT 1

1 a. Explain three switching techniques with delay diagram. 06

b. Give the block diagram for structure of Packet switch and explain briefly. 04

c. What is deflection routing? Explain Manhattan street network. 05

Using Bellman-ford algorithm find the set of shortest paths from all nodes to destination node 2 for the given below figure. 05



UNIT 2

2 a. Explain TCP-state Transition diagram 06

b. Differentiate fluid-flow and packet by packet fair queueing with a neat diagram 08

c. Explain Any TWO Types of OSPF packets 06

OR

3 a. Explain IPV6 header format illustrating changes from IPV4 to IPV6 08

b. What is policing ? Explain the Algorithm to implement it. 06

c. Explain any TWO types of BGP messages 06

UNIT 3

4	a.	Summarize how Remote Monitoring Network(RMON) eliminates the overhead associated with SNMP in obtaining the information.	04
	b.	Describe the problem associated with key distribution. With a neat diagram illustrate how it can be addressed using key distribution center (KDC).	06
	c.	Describe the rules for representing the objects in SMI? With an example demonstrate object identifier tree for internet.	10

OR

5	a.	Which are the additional protocols required for tunneling? Illustrate a customized protocol packet tunneling through the Internet with a neat figure.	07
	b.	Illustrate Overlay Networks.	03
	c.	Describe the operation and packet format of MPLS.	10

UNIT 4

6	a.	Explain the JPEG compression method and still image processing.	10
	b.	Explain the Overview of SIP Protocol	10

UNIT 5

7	a.	How does route request process work for AODV?	10
	b.	Explain the LEACH Clustering protocol	06
	c.	Write a short note on Zigbee technology.	04

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