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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

MAY/JUNE 2015 Semester End Main Examinations

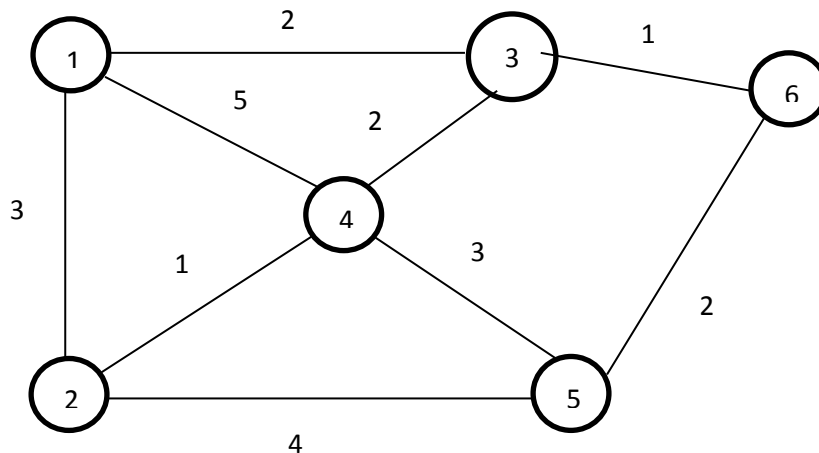
Course: Computer Networks
Course Code: 10CI6GCCON

Duration: 3 Hours
Max Marks:100
Date:19.05.2015

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

UNIT-I

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
- d) Using Bellman-ford algorithm find the set of shortest paths from all nodes to destination node 2 for the given below figure (1) 05



UNIT-II

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-III

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|----|----|--|----|
| 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

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|----|----|---|----|
| 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. | 05 |
| | c) | Describe the operation and packet format of MPLS. | 08 |

UNIT-IV

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| 6. | a) | Explain the session initiation protocol in detail | 10 |
| | b) | Discuss the Huffman encoding technique | 05 |
| | c) | Explain RTP protocol. | 05 |

UNIT-V

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| 7. | a) | Discuss TORA and AODV Protocols. | 10 |
| | b) | Explain the architecture of protocol stack of sensor network. | 10 |
