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06CS64

Sixth Semester B.E. Degree Examination, May/June 2010
Computer Networks – II

Time: 3 hrs. Max. Marks:100

Note: ***Answer any FIVE full questions, selecting at least TWO questions from each part.***

PART – A

1 a. Explain and derive delays in datagram packet switching. **(10 Marks)**

b. Consider the network given below in Fig.Q1(b). Use the Dijkstra's algorithm to find shortest paths from all nodes to destination node 2. **(10 Marks)**

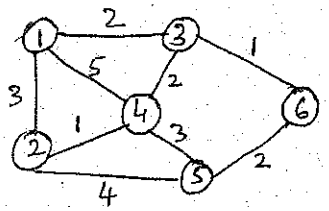

Fig.Q1(b)

2 a. Explain the FIFO and priority queue scheduling for managing traffic at packet level. **(10 Marks)**

b. Explain the leaky bucket algorithm for policing the traffic at flow level. **(10 Marks)**

3 a. Explain the IP address classification. Identify the following IP addresses and their address class:
200.58.20.165 128.167.23.20 16.196.128.50 150.156.10.10 **(10 Marks)**

b. Give the format of IPV6 basic header. Explain the importance. **(10 Marks)**

4 a. Explain the OSPF protocol and its operation. **(10 Marks)**

b. Give the structure of ATM cell header and details of QOS parameters. **(10 Marks)**

PART – B

5 a. Which are the different data types used in the structure of management information? **(10 Marks)**

b. Give the comparison between public key and secret key crypto graphic systems. **(10 Marks)**

6 a. Explain VPN and its types based on tunneling. **(10 Marks)**

b. Explain the need for overlay networks and P2P connection. **(10 Marks)**

7 a. Explain the JPEG compression method and still image processing. **(10 Marks)**

b. Explain the session initiation protocol. **(10 Marks)**

8 a. With an example, explain the dynamic source routing protocol. **(10 Marks)**

b. List the security issues in ad-hoc networks. Explain types of attacks. **(10 Marks)**

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