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

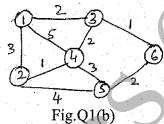
Time: 3 hrs.

Max. Marks:100

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

PART - A

- a. Explain and derive delays in datagram packet switching.
 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)



- 2 a. Explain the FIFO and priority queue scheduling for managing traffic at packet level.
 - 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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Sixth Semester B.E. Degree Examination, December 2010 Computer Networks - II

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from Part - A and Part - B.

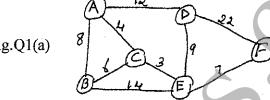
ii)

PART – A

Explain Dijkstra's algorithm. Solve the following problem. 1

(10 Marks)

Fig.Q1(a)



- b. Differentiate between virtual circuit and data grams. Explain routing table of both.(10 Marks)
- 2 a. Explain in detail about TLP architecture.

(08 Marks)

- b. Define the following terms: i) End to End delayiv) Queue scheduling.
- **Jitter** iii) Buffers
- c. Write a short note on random early deduction.

(08 Marks) (04 Marks)

3 Explain the network addressing of 1PV6.

(08 Marks)

With a neat diagram, explain UDP datagram.

(06 Marks)

c. Explain internet group management (IGMP) protocol.

(06 Marks)

What are the six QoS performance parameters in ATM?

(06 Marks)

With a neat diagram, explain ATM cell header format.

(08 Marks)

Explain BISDN reference model.

(06 Marks)

PART - B

5	a.	Explain TLS protocol.	
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(10 Marks) (05 Marks)

b. Differentiate between DES and RSA. List the types of security services.

(05 Marks)

Explain in detail the leaky bucket traffic shaping algorithm. 6

(10 Marks)

Explain the resource reservation protocol. Write the parameters for classifying the resource allocation scheme.

(06 Marks) (04 Marks)

Explain the Raw - Image sampling and DCT. 7

(10 Marks)

Explain Shannon's coding theorem in detail.

(10 Marks)

Briefly explain the classification of routing protocol. 8

(06 Marks)

b. With a neat sketch, explain the concept of clustering in sensor networks. c. Differentiate between Intra cluster and Inter cluster routing protocols.

(06 Marks) (08 Marks)

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