USN						10CS6
CDIV						*

Sixth Semester B.E. Degree Examination, June/July 2014 Computer Network – II

Time: 3 hrs. Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO question from each part.

PART - A

a. Thirterentiate between connection oriented and connectionless services.	1 :	a. Differentiate between connection oriented and connectionless services.	(05 Marks)
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- b. Compare the datagram packet switching and virtual packet switching. (06 Marks)
- c. Explain the Dijkstra's routing algorithm, with an example. (09 Marks)
- 2 a. Explain the FIFO and priority queue scheduling for managing traffic at packet level.

(08 Marks)

- b. Define congestion control with graph. Explain the leaky bucket algorithm for policing the traffic at flow level. (12 Marks)
- 3 a. Explain:

b.

- i) IP address classification
- ii) Subnet addressing. (10 Marks)
- b. Give the format of IPV6 basic header. Compare IPV6 with IPV4.

(10 Marks)

4 a. Explain OSPF protocol and its operation.

(10 Marks)

(10 Marks)

- b. Write a note on:
 - i) IGMP protocol
 - ii) Mobile IP.

PART - B

- 5 a. Write a note on only Two:
 - i) Remote login protocols
 - ii) File transfer and FTP
 - iii) World wide web and HTTP. (08 Marks)
 - b. Define network management and explain SNMP and SNMP messages. (06 Marks)
 - c. Compare secret key and public key cryptography systems.

(06 Marks)

6 a. Explain the differentiated services QoS with a neat diagram.

Explain VPN and its types based on tunneling.

(08 Marks)

c. Explain the need for overlay networks.

(04 Marks)

(08 Marks)

- 7 a. Briefly explain the MPEG standards and frame types for compression.
- (06 Marks)

b. Explain the Huffman encoding, with an example.

- (06 Marks)
- c. With a neat diagram, explain the H.323 components and list the steps in signaling. (08 Marks)
- 8 a. Explain the wireless routing protocol for AD HoC networks.

- (05 Marks)
- b. Briefly explain the direct and multihop routing of intracluster routing protocol, with the help of relevant diagrams. (06 Marks)
- c. Write short notes on:
 - i) Clustering in sensor networks
 - ii) Security vulnerbilibities of AD HoC networks.

(09 Marks)