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

Time:	3 hrs. Note: Answer FIVE full questions, selecting atleast TWO question from each part. Max. Marks: 1	100	
PART – A			
1 a. b. c.	Differentiate between connection oriented and connectionless services. Compare the datagram packet switching and virtual packet switching. Explain the Dijkstra's routing algorithm, with an example. (05 M (06 M) (09 M)	larks)	
2 a. b.	Explain the FIFO and priority queue scheduling for managing traffic at packet level. (08 M Define congestion-control with graph. Explain the leaky bucket algorithm for policing traffic at flow level. (12 M	g the	
3 a.	Explain: i) IP address classification ii) Subnet addressing. Give the format of IPV6 basic header. Compare IPV6 with IPV4. (10 M)	,	
4 a. b.	Explain OSPF protocol and its operation. Write a note on: i) IGMP protocol ii) Mobile IP. (10 M	·	
PART – B			
5 a.b.	 i) Remote login protocols ii) File transfer and FTP iii) World wide web and HTTP. (08 M 	-	

- Compare secret key and public key cryptography systems. (06 Marks)
- c.
- Explain the differentiated services QoS with a neat diagram.
 - Explain VPN and its types based on tunneling. (08 Marks)
 - Explain the need for overlay networks.
 - Briefly explain the MPEG standards and frame types for compression. a. (06 Marks)
 - Explain the Huffman encoding, with an example. b.
 - (06 Marks) With a neat diagram, explain the H.323 components and list the steps in signaling. (08 Marks) c.
- 8 a. Explain the wireless routing protocol for AD – HoC networks. (05 Marks)
 - Briefly explain the direct and multihop routing of intracluster routing protocol, with the help of relevant diagrams. (06 Marks)
 - Write short notes on:
 - Clustering in sensor networks i)
 - Security vulnerbilibities of AD HoC networks.

(09 Marks)

(08 Marks)

(04 Marks)