

USN					

10CS/IS64

(06 Marks)

Sixth Semester B.E. Degree Examination, July/August 2021 Computer Networks – II

Time: 3 hrs.

Max. Marks: 100

111	ne	Note: Answer any FIVE full questions.	arks.100
1	a.	Distinguish between connectionless packet switching and virtual circuit packet sw	-
	b. c.	With the help of a diagram, explain briefly the structure of a generic switch. Differentiate between connection oriented service and connectionless service.	(08 Marks) (08 Marks) (04 Marks)
2	a. b.	Define routing algorithm, explain the Bellman – Ford algorithm with an example. Explain the leaky bucket algorithm for policing the traffic at flow level. How leaky bucket traffic shaper differs from leaky bucket algorithm.	
3	a. b. c.	Describe the various field of IPV ₄ header. Explain the IP address classification with examples. What is subnet addressing? Explain with an example.	(10 Marks) (05 Marks) (05 Marks)
4	a. b. c.	With a neat diagram, discuss the TCP segment header format. Explain the TCP 3-way handshake for establishing a TCP connection. What are the types of Internet routing Protocols? Explain working of Routing I Protocol (RIP).	(08 Marks) (06 Marks) nformation (06 Marks)
5	a. b. c.	Define Network Management and explain SNMP and SNMP messages. Differentiate between DES and RSA. Explain DNS and DNS Message format.	(08 Marks) (06 Marks) (06Marks)
6	a. b. c.	What is VPN? What are its types? List the benefits of creating VPN. What is an MPLS network? Explain the process of packet forwarding using MPLS Explain with a neat, sketch the differential services QoS.	(06 Marks) S. (08 Marks) (06 Marks)
7	- /	Briefly discuss the MPEG standards and frame type for compression. Explain H.323 components with a neat sketches. List the steps involved in signaling	-
	c.	Discuss in brief the working of Real Time Transport Protocol (RTP).	(08 Marks) (06 Marks)
8	a. b.	What are the classification of Routing Protocols in Ad – Hoc Networks. If following protocol i) DSDV ii) DSR protocol. What are the different clustering techniques in wireless sensor Networks. Discuss	(10 Marks)
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With a neat sketch, discuss the sensor node structure.