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10CS/IS64

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

Time: 3	3 hrs.	Marks:100
	Note: Answer any FIVE full questions.	
1 a.	Distinguish between connectionless packet switching and virtual circuit packet s	witching.
		(08 Marks
Ъ.	With the help of a diagram, explain briefly the structure of a generic switch.	(08 Marks
c.	Differentiate between connection oriented service and connectionless service.	(04 Marks
2 a.	Define routing algorithm, explain the Bellman - Ford algorithm with an example	e. (10 Marks
b.	Explain the leaky bucket algorithm for policing the traffic at flow level. How	
	leaky bucket traffic shaper differs from leaky bucket algorithm.	(10 Mark
3 a.	Describe the various field of IPV ₄ header.	(10 Marks
b.	Explain the IP address classification with examples.	(05 Mark
c.	What is subnet addressing? Explain with an example.	(05 Mark
		(00.00000
4 a.	With a neat diagram, discuss the TCP segment header format.	(08 Mark
Ъ.	Explain the TCP 3-way handshake for establishing a TCP connection.	(06 Mark
c.	What are the types of Internet routing Protocols? Explain working of Routing	
7.	Protocol (RIP).	(06 Mark
		(00 Mark
5 a.	Define Network Management and explain SNMP and SNMP messages.	(08 Marks
b.	Differentiate between DES and RSA.	(06 Mark
c.	Explain DNS and DNS Message format.	(06Marks
6 a.	What is VPN? What are its types? List the benefits of creating VPN.	(06 Mark
b.	What is an MPLS network? Explain the process of packet forwarding using MPl	
0.	what is an ivit 25 notwork. Explain the process of packet for warding using ivit	
c.	Explain with a neat, sketch the differential services QoS.	(06 Marks
7 a.4	Briefly discuss the MPEG standards and frame type for compression.	(06 Marks
	Explain H.323 components with a neat sketches. List the steps involved in signal	
*80		(08 Mark
c.	Discuss in brief the working of Real Time Transport Protocol (RTP).	(06 Marks
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8 a.	What are the classification of Routing Protocols in Ad - Hoc Networks.	Discuss th
		(10 Marks
ь.		
		(04 Marks
c.	With a neat sketch, discuss the sensor node structure.	(06 Marks
		3.
ъ.	following protocol i) DSDV ii) DSR protocol. What are the different clustering techniques in wireless sensor Networks. Discus	(10 s brie (04