1RV23AI035.



RV COLLEGE OF ENGINEERING® Department of Computer Science and Engineering

IMPROVEMENT CIE : Question Paper

Course:

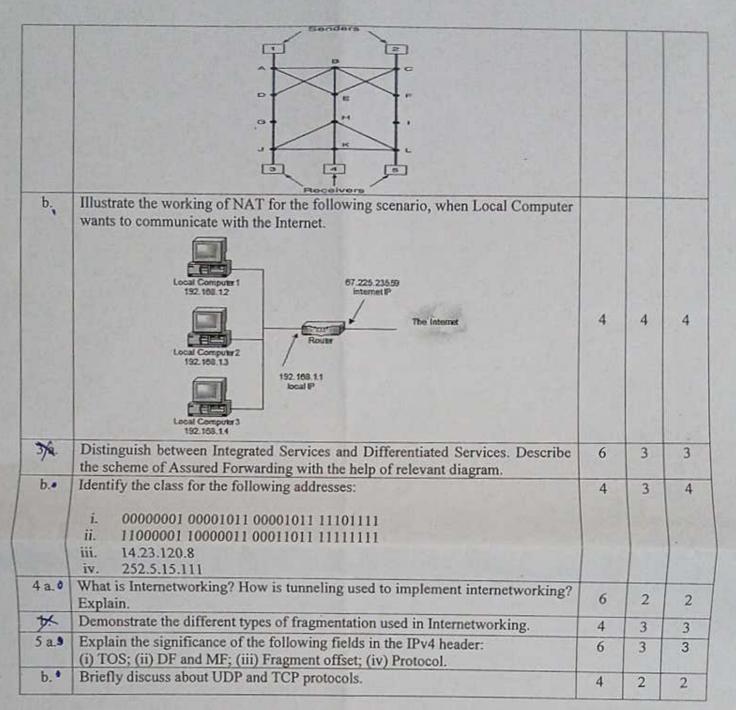
COMPUTER NETWORKS (CY245AT)

Semester: IV

Date: June 2025 Duration: 120 minutes Staff: CSE/ISE/AI-ML
Name: USN: Section: CSE/ISE/AI-ML

tame.	Answer all questions	Mar	L1-	
Sl.no	Ouestions	ks	L6	CO
	What is a potential downside of load shedding in network applications?	1	2	2
1. 0	What is a potential downside of load shedding in network approximate along the data	1	2	3
2.0	protocol is used by IntServ to reserve resources along the data			
	path Dill III III III III III III III III III	2	2	3
3. 0	What are Private IP addresses? Give their ranges for each.	1	2	3
4.3	is the nonprofit corporation, which manages the network number to avoid conflicts.	-		
5.0	The dotted decimal notation of an IP address expressed in hexadecimal as AC101E38 is	1	3	3
. 4	Y ID 4 state value of HH > 5 implies	1	3	2
6.	In an IPv4 packet, a value of IHL > 5 implies	2	4	5
7. s	supporting a minimum of 16 hosts, which Classful subnet mask would be			
8.	Write the abbreviated address for the following IPv6 address: FE80:0000:0000:0000:0202:B3FF:FE1E:8329	1	4	-

Part B LI Mar Sl.no CO Questions ks L6 2 Differentiate between Leaky Bucket algorithm and Token Bucket algorithm 5 2 1 a. 5 A router has the following (CIDR) entries in its routing table: 4 1 b. next hop Address/mask interface 0 135.46.56.0/22 interface 1 135.46.60.0/22 router 1 192.53.40.0/23 router 2 default For each of the following IP addresses, what does the router do if packet with that address arrives? (i) 135.46.63.10 (ii) 135.46.57.14 (iii) 135.46.52.2 (iv) 192.53.40.7 (v) 192.53.56.7 For the given network topology, R3 requests bandwidth 2 MBps from S1, R3 requests bandwidth 1 MBps from S2, R4 requests bandwidth 2 MBps from S1, R5 requests bandwidth 1 MBps from S2. What is the bandwidth required to be reserved at Routers A, B, C, E, H, J, K, L?



Course	Course Outcomes					
CO1:	Apply the algorithms/techniques of routing and congestion control to solve problems related to Computer Networks.					
CO2:	Analyse the services provided by various layers of TCP/IP model to build effective solutions.					
CO3	Design sustainable networking solutions with societal and environmental concerns by engaging in life long learning for emerging technology.					
CO4	Exhibit network configuration, protocol usage and performance evaluation in networks.					
CO5	Demonstrate the solutions using various algorithms/protocols available to address networking issues using modern tools by exhibiting team work and effective communication.					

	Ll	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4	CO5
Marks	-	20	22	18	-		-	17	21	14	8