		P.V.P	Siddhartha Instit	ute of Tech	nology			
		Departmen	t of Computer Sc	ience and E	Ingineering			
Mid Term Examinations – I Regulation: PVP20								
Program: B.Tech Course Code: 20CS3503		Year: IIISemester: IDesCourse Name: Computer Net		Descriptive -1			A.Y:2023-24 Section: 1 , 2 & 3	
				tworks				
Duration: 1 hr 30 min		Maximum Marks: 15		5	Date:30/08/2023		Session: FN	
			Answer all the (Questions.		_		
Q.No		Question				Marks	CO	Level
1. a	Illustrate the differences and commonalities between the TCP/IP and OSI models.					2	CO1,	L2
1.b	Apply Cyclic Redundancy Check Error correction and detection method for the following data word: 101001111, Divisor: 10111 to check whether frame is error free transmitted or not.						CO2	L3
2a.	 I. An organization is assigned the block 2000:1456:2474/48. Identify the first and second subnets in this organization using CIDR notation of IPV6 addressing . II. The CIDR notation of a IPV4 address is as follows: 167.199.170.82/27 					4	CO3,	L3
	i. Exam (Host/ ii. Exam iii. Comp netwo	ine what /network/broad ine the networ outer total num rk?	type of add: dcast)?	ress is can be coni	the above			
2b.	An ISP is granted the block 16.12.64.0/20. The ISP needs to allocate3addresses for 8 organizations, each with 256 addresses.3i. Find the number and range of addresses in the ISP block.3ii. Find the range of addresses for each organization.3iii. Show the outline of the address distribution.3							
3.	Which fields of a Justify your answ		header may chan	ge from rou	ter to router?	3	CO3	L3