	Guru	Nanak Dev Eng	incering College, Ludl	14.			
	The second secon	Department	T ECHIDOLOGY	uana			
,	Program B. Tech.(11) Semester						
Subject Code		PEIT-106	Subject Title		5		
Mid Ser	mester Examination	1		I	Advanced Corr	puter	
	(MSE) No.	1	Course Coordinator		Network		
I	Max. Marks	24		1	Pankaj Bham	ıbri –	
I	Pate of MSE	The second secon	Time Duration	5			
Note: Attempt all questions		20,09,2024	University Roll Number		AM - 10:30	MAC	
Q. No.	The characteristics		, and a second s	li li		,	
		Questi	on		COs,	77	
Q1	Classify Half and En	11 To . 1 . T			RBT level	Marks	
Q2	Illustrate the deta an	II Duplex Ethernet	with two major differences.	1	CO1, L2	1	
Q3	Explain the wards	capsulation concep	with two major differences. t used in the computer netwo	ork	CO1, L2	2 2	
Q4				3	CO1, L3	4	
Q5					CO1, L1	4	
40	VI AN tuncer	e advantages of t	using the trunking protoco	1 for	CO2, L5	4	
					002, 55	-	
VLAN traffic management. In a network with high inter-VLAN communication requirements, how would trunking optimize traffic flow and minimize network congestion?							
Q6	and minimize network congestion? a. Evaluate the role of the Spanning Tree Protocol (STP) in						
4.5	a. Evaluate the	role of the Spa	nning Tree Protocol (STF) in			
	proventing n	CLWORK JOODS. (71)	ven a scenario urbara mat	1.	CO2, L5	4	
	redundancy a	nd natural	ld you configure STP to bal	ance	L.		
	b. Compare and contrast unmanaged and managed switches in terms of control, functionality, and real-world use cases. How would each type impact network scalability and performance in						
	a large enterp	rise environment?	A scalability and performan	ce in			
Course (Outcomes (CO)						
	will be able to						
1	Understand internety	vorking TCP nro	tocale emitabina				
	Understand internetworking, TCP protocols, switching, network routing, adhoc networks, internet layer protocols, host to host layer protocols, application layer protocols, Virtual LAN,						
	Network Routing Pro	tocols, adhoc routi	ng protocols	er pro	piocols, Virtu	ial LAN,	
2	Network Reuting Protocols, adhoc routing protocols Implement the switch administrative configurations, routing between different VLANs, router						
	administrative configurations.						
3	Analyze Enhanced IGRP and Open Shortest Path First routing protocols						
4	Compare adhoc networks with cellular networks						
5	Formulate communication between VLANs of different configuration						
			uniterent configuration	on	Ď.		

RBT	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)		
Classification						(
RBT Level	L1	L2	L3	L4	L5	L6
Number		3				
RBT Level	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
Name						

Pell-100 Subject Title								
Program Subject Code Nid Semester Examination (MSE) No. Max. Marks Date of MSE O. No. Q1 Explain the four main differences between ad-hoc networks and cellular networks. Q2 Compare two major strengths and weaknesses of proactive versus reactive routing protocols in ad-hoc networks. Q3 Demonstrate how to view, save, and erase configurations on a router. Q4 Summarize the basic operations of Distance Vector Routing Protocols. Q5 Critique the effectiveness of specific MAC and routing protocols in providing reliable communication in ad-hoc networks. Q6 Compare and contrast Routing Information Protocol (RIP), Enhanced Interior Gateway Routing Protocol (EIGRP), and Open Shortest Path First (OSPF) in terms of efficiency and use cases. Course Outcomes (CO) Students will be able to Understand internetworking, TCP protocols, switching, network routing internet layer protocols, about on host layer protocols. Implement the switch administrative configurations, routing between differences along the protocols. Analyze Enhanced IGRP and Open Shortest Path First routing protocols Analyze Enhanced IGRP and Open Shortest Path First routing protocols Analyze Enhanced IGRP and Open Shortest Path First routing protocols	5 th							
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RBT	Lower Order Thinking Levels (LOTS)				Higher Order Thinking Levels (HOTS)		
Classification RBT Level	L1	L2	L3	L4	L5	L6	
Number RBT Level	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
Name							

Please ch	ock that she			
	eek mai mis que	stion paper contains_	9 questions and	l printed pages within first ten
[Total N	lo. of Questions	2,001		[Total No. of Pages: 01]
Time All	lowed: 03 Hou	Program: B. Semester: 5 Name of Su Subject Cod	bject: Advanced Com e: PEIT-106	ward)
-/ [Parts A and B a Part-C has Two Any missing da	re compulsory Questions Q8 and Q9 ta may be assumed a	9. Both are compulso	ry, but with internal choice
		Part – A		[Marks: 02 each]
1	b) Def c) Giv d) List e) Exp	at is Authentication hine Personal Area Need details about the teed some Application Lawar Bata Encapsulations the three-way have	twork? / rm SNMP. yer Protocols and exp on with an example?	lain them briefly. 《
2. 3. 4. 5. 6. 7.	Illustrate the Explain Spar Give an over Elaborate th	role of Ethernet cabli e simple overview of ning Tree Protocol. view of a Switch. Wr e working of DHCP. between Half and F	IPv6.) nat are Managed and	[Marks: 04 each] Unmanaged Switches?
		Part – C	[Mar	ks: 12 each]
8.	Explain in de their function		nierarchical network OR	. Also compare its different layers wit
	Summarize th	ne features, advanta	ges and applications	of Adhoc Networks.
9.	Define VLAN. between VLA	Differentiate Static N of different config	VLAN vs Dynamic uration. OR	VLAN. Analyze communication
	Compare adh Iimitations ar	ıd gaps. 🛭 🖖	ellular networks? Als	so explain advantages along with