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Code No: 115DT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, May - 2018 COMPUTER NETWORKS (Common to CSE, IT) Max. Marks: 75												
	consists of 5 Un 10 marks and marks	per contains twilsory which caits. Answer any	yo parts A and B. arries 25 marks. y one full questions.	Answer all que on from each uni	stions in Part A. it. Each question	Part B carries	<i></i>					
AG	AG,	AG	PART-A	AG	<u></u>	Marks)	_					
1.a) b) c) d)	Discuss the design When do we use What are main for	gn issues of dat hubs? Inctionalities of	a link layer. frouters?_What i	s purpose of usi	ng multiprotocol	[2] [3] [2]	Λ					
(e) (f) (g) (h) (i) (j)	What is optimal? Discuss congestic What is CIDR ad Discuss the princ What is silly win Draw TCP and U	on control algo dressing iples of interne dow syndrome DP headers.	rithms on brief. tworking.	AG.		[3] [2] [3] [2] [3] [2] [3]	<u> </u>					
AG .			PART -B		(50 M	larks)	A					
2.	Compare and con	trast OSI and T	CP/IP reference OR	models. Critiqu	e on each model.	[10]						
3.a) b) 4.	Explain sliding w Describe go back Define collision.	N protocol.	on free protocols	Mention adva	ntage of each pro	[5+5] tocol. [10]	A					
5.	Explain the follow a) Bridges	ving:	OR									
AG	b) Gateways c) Repeaters.	1 1000	AG.	I A Same S	- / \ \ \ \\		A					
6.a)	The major problem exchange complete	e path form ro	e vector routing outer to destinati	algorithm is 'c on instead of d	ount to infinity'. lelay, helps in so	How lving						
b)	count to infinity pr Explain the design	oblem.	ork layer.			[5+5]						
△ (. 7 .	Discuss the hierard	hical routing w	OR yith examples.	AG	AG		A					

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<u>*</u>	a) How b) How .a) Discus	v many subnets	re there per subnet			255.192. [5+5] [5+5]	· A
10	0. Illustra	ate the TCP con	nections, TCP rele	eases with state to	ransition diagram	. [10]	
AG	1. Descri	be DNS with di	agrams and real-ti	ime examples.	3 A(A
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