Code No: 117BY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, March - 2017 **COMPUTER NETWORKS**

	(Common to ECE, EIE, BME)			
	: 3 Hours		Max. Marks: 7	5
Note:	This question paper contains two parts A and B.			
* * * * * * * * * * * * * * * * * * *	Part A is compulsory which carries 25 marks. Answer consists of 5 Units. Answer any one full question from e 10 marks and may have a, b, c as sub questions.	all questions each unit. Eac	in Part A. Part ch question carrie	B es
1 ->	Part- A (25 Marks)			
1.a)	How selective repeat protocol resolves issues of stop and	wait protocol?	[2]	
b)	What are the applications of Infrared waves?		:[3]	
c)	Mention some of the physical properties of Ethernet.		[2]	
d)	Explain the function of repeaters.		[3]	
e)	What are the metrics used by routing protocols.		[2]	
f)	How does netid differ from a network address.		[3]	
g)	Explain briefly about Crash recovery.		[2]	
h)	Explain about Packet Fragmentation.		[3]	
i)	What are the basic functions of email systems?		[2]	5
j)	What are the two main categories of DNS messages?		[3]	
	Part-B (50 Marks)			
2.a)	Explain about the Coaxial Cable with neat sketch.	*** **** * * * * * * * * * * * * * * *	**** *********************************	
b)	What is bit and byte stuffing explain with an example.		[5+5]	111
	OR		[and any	
3.a)	Explain the frame format of PPP.			
b)	Draw the layered architecture of the OSI reference r	model and w	rite two service	S
*** ***	provided by each layer of the model.		[5+5]	

4.a)	Explain the flow diagram of CSMA/CD.		`***	1,,,,1
b)	Explain about the source routing bridge.		[5+5]	
	OR		[0.0]	
5.a)	Explain about channelization protocols.			
(b)	Explain the categories of standard Ethernet.		[5+5]	
	- Wind Direct Siries (
6.	Explain about the Distance Vector routing protocol with an OR	n example.	[10]	
7.	Explain about the Link State routing algorithm.		[10]	
8	Explain about DHCP.	**, ****	:[10]:	*** ***
or in				
9.a)	Explain about CIDR.			
b)	Explain about RARP.		[5+5]	
10.	Explain the various fields of the TCP header with the help	of a neat diagr	ram.[10]	
		and and gr	3	
11.a)	Explain about the window management in TCP.			
b)	Explain about HTTP request.		[5+5]	
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