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Code	No: 125DT	R15	
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD			
	B. Tech III Year I Semester Examinations, November/December - 2017		
\Box	COMPUTER NETWORKS		,
	(Common to CSE, IT)	+	
Time:	3 hours Max. M	arks: 75	A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A consists of 5 Units. Answer any one full question from each unit. Each question		
iomor**	10 marks and may have a, b, c as sub questions.		, pressure-4
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	(25)	Marks)	
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1.a)	Write the advantages of optical fiber over twisted-pair and coaxial cables.	[2]	
b)	What are the advantages of having layered architecture?	[3]	
c)	Briefly explain the difference between switch and router.	[2]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(d)	Sketch the Manchester encoding for the bit stream: 0001/110101.		
(e)	Give the advantages of hierarchical routing.		
f)	Differences between CO and CL.	[3]	
g)	Explain DHCP.	[2]	
h)	What are the functions of ICMP?	[3]	
i) i)	What is the architecture of WWW?	[2]	
j)	Explain the differences between POP3 and IMAP.	[3]	
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	즐겁한 경기이다. 그렇게 그릇하는 거부터 시간이다. 그리고 그 약	(Warks)	
2.a) Compare and contrast the OSI and TCP/IP reference models.			
b)	Compare and contrast the OSI and TCP/IP reference models. What are the different types of error detection methods? Explain the CRC error		
0)	detection technique variage concentration and value 3/1 and data 11100011		
	detection technique using generator polynomial x^4+x^3+1 and data 11100011.	[5+5]	
	$\square \square $	[]/	
$\beta.a$	Discuss about the various transmission media available at the physica		1
b)	Explain about GBN Sliding Window Protocol.	[5+5]	
4.a)	Explain the differences between the switching methods.		
b)	Elucidate the CSMA schemes.	[5+5]	
	OR OR		
5.a)	Illustrate the frame structure of IEEE 802.3.	ponone, pony	,
/ (Give a detail note on the ALOHA protocols.	[5 <u>+5]</u>)	ļ
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6.a)	Elucidate Distance Vector Routing Algorithm with example.		
b)	Describe the problem and solutions associated with distance vector routing.	[5+5]	
	OR		
7.a)	Explain the general principles of congestion control.		
b)	Describe congestion control in datagram subnets.	[5+5]	
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