

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2017

COMPUTER NETWORKS

(Common to CSE, IT)

Max. Marks: 75

Note: This question paper contains two parts A and B.

Code No: 115DT

Time: 3 hours

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

What is the use of datalink layer? 1.a) [2] What is ARP? Explain. b) [3] Explain about Broadcast link. [2] c) d) Give the classification of multiple access protocols. [3] Write any two services network layer provides to transport layer. [2] e) Explain about datagram and virtual circuit. [3] f) What is internetworking? [2] g) List out the internetworking devices. h) [3] What is the role of UDP in internet transport protocol? i) [2] What is TELENET? [3] i)

PART-B

(50 Marks)

2.	Explain about various transmission media in physical layer with a neat sketch.	[10]
	OR	
3.	Elaborate on the design issues of data link layer.	[10]
4.	Write in detail on Time-Division Multiplexing and Frequency-Division Multiplex	ing
	with an example for each.	[10]
	OR	
5.	Write and explain about various multiple access protocols.	[10]
6.	Explain the Optimality Principle with a suitable example.	[10]
OR		
7.	Explain distance vector routing algorithm.	[10]
8.	What happens when large packet wants to travel through network with si	maller
	maximum packet size? Explain.	[10]
	OR	
9.	Explain tree-structured numbering scheme.	[10]
10.	Explain about RPC with a neat sketch.	[10]
	OR	
-11.	What is DNS? What are the services provided by DNS and explain how it works.	[10]

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(25 Marks)

R13