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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year I Semester Examinations, February/March - 2016 \$GEG

COMPUTER NETWORKS (Common to CSE, IT)

Time: 3 hours Max. Marks: 75 M.

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

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

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A 100 A 100	1.a)	What is meant by protocol.	et.	Rie	. Sign	671 1971 1012 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOT THE
	b)	What is piggybacking?					[3]
	c)	Define bridge.					[2]
APILAAN APILAAN	d).	Describe in brief about Type	s of Eth	ernet cabli	ng.	55.51	[2]
	e)	What is virtual circuit?					[2] ## [2]
	f)	What are the issues in routing	ıg/)				[3]
	g)	Define Tunneling.	7				[2]
1964	h)	List out the socket primitive	s for TC	P. I			
	i)	Define URL.			7	*** ***	[2]
	j)	List out different types of H	RML Tas	28.			[3]
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Part-B

Write any four reasons for using layered protocols. 2.a)

b) Explain the functionality of each layer in OSI reference model. **[5+5]**

Explain in brief about the design issues in the data link layer. 3.

[10]

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(50 Marks)

4. Explain the functions of following devices:

es.

- a) Hub
- b) Bridge
- c) Router
- d) Gateway

OR

What are the functions of medium access control layers protocol? Explain. 5.a)

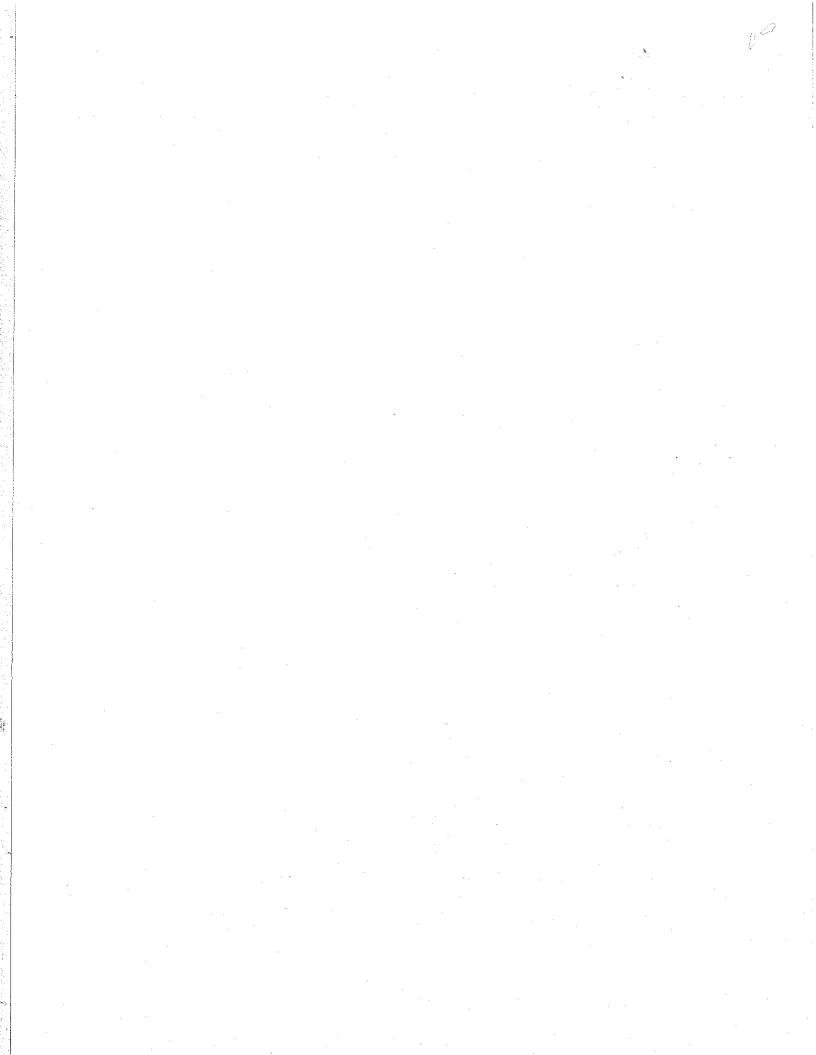
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- b) Explain IEEE 802.3 standard for Ethernet with the help of frame formation [5+5]
- The major problem with distance vector algorithm is 'count to infinity'. How 6.aexchange of complete path from router to destination instead of delay, helps in solving count to infinity problem.
 - What are the advantages of adaptive routing approach over non adaptive b) routing? [5+5]

OR

Describe Dijkstra shortest path algorithm. Also show working 7. algorithm with the help of an example. [10]

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