

www.FirstRanker.com

www.FirstRanker.com

R13

Code No: 813AR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January - 2018 COMPUTER NETWORKS

Time: 3 Hours Max. Marks: 60

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

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

		$5 \times 4 \text{ Marks} = 20$
1.a)	Why protocols and standards needed.	[4]
b)	Define about random access of channel.	[4]
c)	Write the functionality of network layer.	[4]
d)	What is meant by Tunneling?	[4]
e)	Explain about TELNET.	[4]
	PART - B	
		$5 \times 8 \text{ Marks} = 40$
2 0)	What is most by CBC and as?	

2.a) What is meant by CRC codes?

b) Compare and contrast the Go-Back-N ARQ protocol and Selective Repeat ARQ protocol.

[4+4]

OR

Define Piggybacking and its usefulness.

Explain the TCP/IP Protocol suite.

[4+4]

Describe in detail about pure ALOHA.

b) What are the uses of a router and gateway?

[4+4]

OR

5.a) What is the importance of spanning tree bridges.

Explain about CSMA/CA.

[4+4]

6.a) Explain Distance vector routing with an example.

Give a detailed description on store and forward packet switching.

[4+4]

or

7.a) What is meant by congestion in network? Explain any algorithm for congestion avoidance.

b) What is meant by hierarchical routing explain?

[4+4]

8.a) Compare and Contrast the fields in the main header of IPv4 and IPv6.

b) Explain the addressing mechanism in transport layer.

[4+4]

ΟŔ

9.a) Explain the extension headers of IPv6.

Explain about connection establishment and release in Transport layer.

[4+4]

Write short on Application layer protocols

a) HTTP

b) FTP

[4+4]

OR

11.a) What are the services provided by the User agent of Electronic mail system explain.

Explain the header fields of TCP.

[4+4]

