R16

Code No: 137BK

example.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, December - 2019 COMPUTER NETWORKS

(Electronics and Communication Engineering)

Time: 3 Hours Max. Marks: 75

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 as sub questions.

PART - A

(25 Marks)

[10]

	(2.	J Wiai Ks)
1.a)	What is difference between internet and intranet?	[2]
b)	Define computer network. How is a computer network different from other networks?	• -
2)		[3]
c)	Write Ethernet cabling standards.	[2]
d)	List the carrier sense protocols.	[3]
e)	Define broadcasting.	[2]
f)	What is congestion? State general principles of congestion control.	[3]
g)	List the transport service primitives.	[2]
h)	What are the fields that are present in the UDP header?	[3]
i)	Define firewall.	[2]
j)	What are the three aspects of security?	[3]
PART – B		
		0 Marks)
		,
2.	With a neat diagram, explain the functionality of layers, protocols and interface Model.	es of OSI [10]
	OR	
3.	Explain in detail about coaxial cable with neat sketch.	[10]
4.	Explain the operation of ALOHA system. Derive the expression for its channel expression for its channe	fficiency.
		[10]
OR		
5.	Explain in detail about the sliding window protocol.	[10]
6.	Briefly explain the routing in internet by using the BGP protocol.	[10]
J.	OR	[10]
7.	How routes are determined by exchange of distance vectors. What is the main	problem
, .	with distance vector routing algorithm? What are the solutions for it? Illustrate	-

Explain the frame format of TCP header and compare it with UDP protocol, and its design 8. [10] issues. OR Discuss in detail about the elements of transport layer. [10] 9. 10. Write a short note on the following: a) Bluetooth b) Zigbee [4+6]OR 11.a) Explain in detail about IP security. b) Discuss in detail about SSL. [4+6]

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