R16

## Code No: 137BK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Took IV Voor I Semester Examinations, December - 2019

B. Tech IV Year I Semester Examinations, December - 2019 COMPUTER NETWORKS									
$8R_{ ext{Time:}}$	(Electronics and Communication Engineering) Max. Mark	is: 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 consists of 5 Units. Answer any one full question from each unit. Each question camarks and may have a, b as sub questions.	Part B arries 10							
8R	8R 8R 8RT-A 8R 8R (25	Marks)							
1.a) b)	What is difference between internet and intranet?  Define computer network. How is a computer network different from other networks?	[2] types of [3]							
S (c) d) e)	Write Ethernet cabling standards. List the carrier sense protocols.  Define broadcasting.  What is congestion? State general principles of congestion control.	[2] [3] [2] [3]							
f) g) h) i)	List the transport service primitives.  What are the fields that are present in the UDP header?  Define firewall.	[2] [3] [2]							
8R )	What are the three aspects of security?  PART - B	$\bigcup_{i=1}^{[3]} \bigcup_{j=1}^{i} \bigcup_{i=1}^{[3]} \bigcup_{j=1}^{i} \bigcup_{i=1}^{[3]} \bigcup_{j=1}^{[3]} \bigcup_{j=1}^{[3]} \bigcup_{i=1}^{[3]} \bigcup_{j=1}^{[3]} \bigcup_{j$							
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2. S 2. 3.	With a neat diagram, explain the functionality of layers, protocols and interface Model.  Explain in detail about coaxial cable with neat sketch.	s of OSI [10] [10]							
4.	Explain the operation of ALOHA system. Derive the expression for its channel et	fficiency. [10]							
S 5.	Explain in detail about the sliding window protocol  Briefly explain the routing in internet by using the BGP protocol.  OR	[10] [10] =							
7.	How routes are determined by exchange of distance vectors. What is the main with distance vector routing algorithm? What are the solutions for it? Illustrate example.	problem with an [10]							
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, Tes	≥ ₹8.	Explain the fra	me format of TO		ompare it with UI	OP protocol, and	its design [10]	
	9,	OR Discuss in detail about the elements of transport layer. [10]						
	10. 8 R	Write a short n a) Bluetooth b) Zigbee	ote on the follow	wing:	·8R	37	[4-6]	
· · · · · · · · · · · · · · · · · · ·	11.a) b)	Explain in deta Discuss in deta	ail about IP secu ail about SSL.		T.		[4+6]	
	8R	8R	88	00 <b>0</b> 00	8R	8R	88	8
		87	88	8	.87	8 R	87	
	8 R		82	8	88	87	87	E
	8 R	8R	8 R	88	88	88	88	S
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