Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Summer 2018 - 19 Examination

	Semester: 7Date: 08/05/2019Subject Code: 03107401Time: 10:30 am to 01:00pSubject Name: Data Communication and NetworkingTotal Marks: 60	m
	Instructions:	
	1. All questions are compulsory.	
	2. Figures to the right indicate full marks.	
	3. Make suitable assumptions wherever necessary.	
0 .1	1 Objective Type Ouestions - (All are compulsory) (Each of one mark)	(15)
~ ••	1. In a relationship, the link is shared equally between devices.	(10)
	[a] peer-to-peer [c] primary-secondary	
	[b] point-to-point [d] master-slave	
	2. IPv4 address is bit.	
	[a] 8 [c] 32	
	[b] 16 [d] 64	
	3. Network of networks is known as	
	[a] LAN [c] intranet	
	[b] WAN [d] internet	
	4. Which one of the following is not a function of network layer?	
	[a] routing [c] congestion control	
	[b] inter-networking [d] none of the above	
	5. For large networks topology is used.	
	[a] star [c] ring	
	[b] bus [d] irregular	
	6. Repeater operates in layer of the OSI model.	
	7. MODEM stands for	
	8. UDP is part of layer.	
	9. The range of class B - IP address is	
	10. The full name of HTTP is	
	11. TELNET protocol of TCP/IP is used for remote terminal connection service. [TRUE or FALSE]	
	12. In OSI reference model, Transport layer provides error free delivery of data. [TRUE or FALSE]	
	13. The physical layer makes routing decisions. [TRUE or FALSE]	
	14. Multi-path routing can be achieved in distance vector algorithm. [TRUE or FALSE]	
	15. The network layer has classified in 3 IP address classes. [TRUE or FALSE]	
Q.2	2 Answer the following questions. (Attempt any three)	(15)
	A) Explain the Network Topology in detail.	
	B) Explain and compare distance vector routing and link state routing algorithm.	
	C) Write short note on FTP.	
	D) Explain the concept of Cellular Internet Access.	
Q	3 A) Explain the Domain Name System.	(07)
	B) What is cryptography? List & explain its types.	(08)
	OR	
	B) Explain Digital Signature.	(08)
Q.4	4 A) List the various duties of the transport layer and explain each in brief.	(07)
	OR	
	A) List the classification of network in detail according to the area covered. Explain each classification of network.	(07)
	B) Draw and explain the OSI reference model for networks. Compare OSI reference model TCP/IP.	(08)