00000EC407121904 Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Seventh semester B.Tech examinations (S), September 2020

Course Code: EC407

Course Name: COMPUTER COMMUNICATION

Max. Marks: 100   Duration: 3 Hours

PART A
Answer any two full questions, each carries 15 marks.
			Marks
1	a)	Compare the different physical topologies.	(5)
	b)	Explain TCP/IP protocol suite.	(10)
2	a)	Describe the functions of all the layers of OSI model.	(7)
	b)	Describe the persistent methods in CSMA.	(4)
	c)	List out the functions of data link layer.	(4)
3	a)	Explain the architecture of IEEE 802.11 with suitable diagram	(10)
	b)	Explain the Checksum method of error detection.	(5)

PART B
Answer any two full questions, each carries 15 marks.
4	a)	Explain the different networking devices.	(7)
	b)	Draw the general format of ICMP messages. Explain error-reporting ICMP	(8)
5	a)	Define routing table. Differentiate static and dynamic routing table.	(5)
	b)	Explain Dijkstra's algorithm to find the shortest path, with a suitable example.	(10)
6	a)	Explain Network Address Translation.	(7)
	b)	Explain the Routing table modification in Distance Vector Routing.	(8)

PART C
Answer any two full questions, each carries 20 marks.
7	a)	Explain the protocol used for network management.	(8)
	b)	Describe WWW architecture.	(8)
	c)	Explain POP3.	(4)
8	a)	What is Intrusion Detection System? Explain the types of IDS.	(10)
	b)	Explain the three-way handshaking connection establishment mechanism in	(7)
	c)	List out the congestion control categories.	(3)
9	a)	Explain AH protocol.	(7)
	b)	Describe the four SSL protocols.	(8)
	c)	List out the services provided by IPSec.	(5)

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