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Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MARCH 2020

Course Code: EC407

Course Name: COMPUTER COMMUNICATION

		Course Name: COMPUTER COMMUNICATION			
Max. Marks: 100 Duration: 3 Hours					
PART A Answer any two full questions, each carries 15 marks. Marks					
1	a)	With a suitable diagram explain the fundamentals of TCP/IP protocol Suite.	(8)		
	b)	Explain about (a) Coaxial cable (b) Fibre optic cable.	(7)		
2	a)	Explain the error detection using CRC.	(8)		
	b)	Explain about the MAC sub layers defined by IEEE 802.11	(7)		
3	a)	Explain how collision is avoided in CSMA/CA.	(10)		
	b)	Explain about star and bus topologies.	(5)		
PART B					
Answer any two full questions, each carries 15 marks.					
4	a)	Explain the functionalities of network layer and IP packet format.	(10)		
	b)	Explain the forwarding of packet in network layer.	(5)		
5	a)	Explain the formation of shortest path tree using Dijkstra's Algorithm.	(10)		
	b)	Explain about classful and classless addressing.	(5)		
6	a)	What is VLAN? Explain its configurations.	(7)		
	b)	Explain how Link State Routing is implemented in OSPF protocol.	(8)		
PART C					
7	a)	Answer any two full questions, each carries 20 marks. Explain about TCP segment format.	(8)		
	b)	Explain how DMZ helps in network security.	(6)		
	c)	Explain about SNMP.	(6)		
8	a)	Discuss how IPSec secures network layer communication.	(8)		
	b)	Explain the various intrusion detection systems.	(6)		
	c)	Explain about (a) PGP (b) SSL	(6)		
9	a)	Explain congestion control measures implemented in transport layer.	(8)		
	b)	Explain the architecture of WWW.	(6)		
	c)	Explain about SMTP.	(6)		