Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

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)	With a suitable diagram explain the fundamentals of OSI model.	(10)
	b)	Explain about byte stuffing with example.	(5)
2	a)	Explain the frame format in HDLC protocol.	(8)
	b)	Explain about TCP/IP protocol suite.	(7)
3	a)	Explain about simplex, half duplex and full duplex communication.	(3)
	b)	Explain how collision is handled in CSMA/CD.	(8)
	c)	Compare circuit switching and packet switching.	(4)

PART B
Answer any two full questions, each carries 15 marks.

4	a)	Explain about ICMP. How is error reporting possible in ICMP.	(8)
	b)	Explain the forwarding of packet in network layer.	(7)
5	a)	Explain subnetting and super netting. How do the subnet mask and supernet mask differ from a default mask in classful addressing?	(8)
	b)	Explain Link State Routing using Dijkstras algorithm with an example.	(7)
6	a)	What is VLAN? Explain its configurations.	(8)
	b)	Explain Routing Information Protocol with an example.	(7)

PART C
Answer any two full questions, each carries 20 marks.

7	a)	Explain about open loop and closed loop congestion control mechanisms.	(10)
	b)	Write note on (a) PGP (b) TLS	(6)
	c)	Explain about firewall and its types.	(4)
8	a)	With necessary diagram explain the features of UDP.	(8)
	b)	Explain the various intrusion detection systems.	(6)
	c)	Explain the TCP segment format.	(6)

9 a) Explain any four common attacks in networks. (8)

   b) Explain how Telnet establishes connection to a remote system. (6)

   c) Explain about IPSec and its modes. (6)

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