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## 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 a) With a suitable diagram explain the fundamentals of OSI model. 1 (10)b) Explain about byte stuffing with example. (5) a) Explain the frame format in HDLC protocol. (8) b) Explain about TCP/IP protocol suite. (7) 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. a) Explain about ICMP. How is error reporting possible in ICMP. (8) b) Explain the forwarding of packet in network layer. (7) a) Explain subnetting and super netting. How do the subnet mask and supernet mask (8) differ from a default mask in classful addressing? b) Explain Link State Routing using Dijkstras algorithm with an example. (7) 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. a) Explain about open loop and closed loop congestion control mechanisms. (10)7 b) Write note on (a) PGP (b) TLS (6) c) Explain about firewall and its types. (4) a) With necessary diagram explain the features of UDP. (8) b) Explain the various intrusion detection systems. (6)

(6)

c) Explain the TCP segment format.



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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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