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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

- 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)
