

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

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| 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.*

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| 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.*

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| 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) |
