

Reg. No. _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER MCA (LATERAL ENTRY) DEGREE EXAMINATION, JULY 2017

RLMCA201: COMPUTER NETWORKS

Maximum Marks: 60

Duration: 3 Hours

PART A*Answer All Questions. Each question carries 3 marks*

1. Highlight the importance of protocol layering with an example.
2. Explain the basic model of FTP. How FTP uses the services of TCP?
3. Differentiate connection oriented and connectionless transport with suitable example.
4. How routing happens through Border Gateway Protocol?
5. Explain the duties of data link Layer.
6. Compare any two random access protocols.
7. What are the various Wireless LAN requirements?
8. List out the goals of firewalls.

PART B*Answer any one question from each module. Each question carries 6 marks.***MODULE I**

9. What are the components of basic communication model? Describe with the help of a neat diagram.

OR

10. Discuss about the history of Internet.

MODULE II

11. Describe with an example how an HTTP conversation happens between a Web client and server.

OR

12. Explain the file sharing mechanism in P2P networks with an example. What are its advantages and disadvantages?

MODULE III

13. Explain different principles of Congestion Control.

OR

14. Explain stop-and-wait and Go back-N protocol in detail.

MODULE IV

15. What are the performance criterias for selecting a routing algorithm? Illustrate distance vector routing algorithm used in networks.

OR

16. Differentiate virtual circuits and datagram.

MODULE V

17. Explain in detail about IEEE 802.3 MAC frame format with its access protocol.

OR

18. A series of 8 –bit message blocks to be transmitted across a data link using a CRC forerror detection. A generator polynomial of 1101 is to be used. Message is given as100100. Explain how CRC check is implemented.

MODULE VI

19. Write short note on

- a. Troubleshooting
- b. SNMP

OR

20. Explain Bluetooth with its architecture and layers.
