A **L1A001** **Total No. of Pages:2**

Reg. No._____ Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER MCA (LATERAL ENTRY) DEGREE EXAMINATION DEC 2016

RLMCA201- COMPUTER NETWORKS

Time: 3 Hours Maximum. Marks: 60

PART A

Answer all questions

Each question carries 3 marks

1. What is the difference between a Computer Network and a distributed system?
2. Write notes on Finite Automaton.
3. What are the advantages of DHCP?
4. What type of errors can be detected by Parity Check Code? How is it implemented?
5. How collision is resolved in IEEE802.11 LAN.
6. What is a piconet?
7. Why can a row/column parity check correct single bit errors or detect two bit errors, but not both?
8. Why does UDP use port number and not process id?

PART B

Answer any one question from each module. Each question carries 6 marks

MODULE I

9. Why are the layers of the OSI Reference model important to the network administrator? How layers of OSI model exchange information to establish a connection? Describe with the help of neat diagram.

Or

10. What are the five layers in the Internet protocol stack? What are the principal responsibilities of each of these layers?

MODULE II

11. When displaying a web page, the application layer uses which protocol, Discuss with relevant example.

Or

12. What is peer to peer File sharing? Is peer to peer file sharing unlawful? Justify with an example.

MODULE III

13. Discuss in detail Sliding window protocol with the help of a neat diagram.

Or

14. Outline in detail the two well known data transport protocols provided by the Internet transport layer.

MODULE IV

15. Explain why routing is very important in networking. Illustrate distant vector routing algorithm used in networks.

Or

16. Compare and contrast IPv4 and IPv6. How does IPv6 solve the problem of IPv4 address exhaustion?

MODULE V

17. Explain in detail about IEEE 802.3 with its access protocol and addressing mechanism.

Or

18. Comment on error detection and correction mechanism with suitable examples.

MODULE VI

19. Briefly explain Bluetooth and its architecture.

Or

20. Explain Network management and highlight the role of network administrator.