

Register No:

Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

EIGHTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION(R), MAY 2024**(2020 SCHEME)****Course Code : 20IMCAT404****Course Name : Advanced Computer Networks****Max. Marks : 60****Duration:3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. How does resource reservation and admission policy improves QoS?
2. Explain URL. Which are the different types of web documents?
3. What is the basic principle behind error control and flow control at transport layer?
4. How is an error control mechanism implemented at transport layer?
5. What are the different types of messages in BGP?
6. Explain the working of routing algorithms.
7. What is byte stuffing in character oriented protocol?
8. Analyse the working of ALOHA protocol and prepare a report.
9. Network traffic analysis is an important function of network management. Justify.
10. Elaborate on network management architecture.

PART B*(Answer one full question from each module, each question carries 6 marks)***MODULE I**

11. Elaborate on a protocol provided by TCP/IP for copying files from one host to another. 6

OR

12. Explain the working of TCP/IP model. 6

MODULE II

13. Explain the working of UDP. Also mention its advantages. 6

OR

14. Explain an example of end-to-end congestion control mechanism. 6

MODULE III

15. What is meant by IPv6? Compare it with IPv4. 6

OR

16. How are routers working? Also draw a block diagram of router. 6

MODULE IV

17. Analyse the fields of Ethernet IEEE 802.3 and prepare a report. 6

OR

18. What are polynomial codes? Illustrate the working for the case of $D= 101110$ (data bits to be sent) 6
and $G=1001$ (Generator polynomial).

MODULE V

19. Illustrate the architecture of wireless LAN. 6

OR

20. Explain a mechanism suitable for connecting secure and insecure networks. 6
