

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (R), FEBRUARY 2022 (2020 SCHEME)

Course Code: 20IMCAT107

Course Name: Introduction to Computers & PC Hardware

Max. Marks: 60

Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

1. What are the basic components of a computer system?
2. Differentiate between DRAM and SRAM.
3. Write a short note on DMA channel.
4. Differentiate north and south bridge motherboard.
5. Briefly explain the concept of disk partitioning.
6. Compare and contrast SSD and HDD.
7. What is a port? What are the characteristics of ports?
8. What is the difference between impact and non-impact printer?
9. List and explain the different troubleshooting tools used in computer system.
10. What is data recovery?

PART B

(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. With a neat diagram, explain the working of a CPU. (6)

OR

12. Explain different generations of a digital computer. (6)

MODULE II

13. Explain IO buses in detail. (6)

OR

14. Explain the motherboard and its controllers. (6)

MODULE III

15. How does magnetic storage devices differ from optical storage devices? Explain. (6)

OR

16. a) Explain about IDE interface. (3)
b) Compare IDE interface with SCSI interface. (3)

MODULE IV

17. What is a modem? Explain the different types of modems. (6)

OR

18. Explain the role of audio adapters in digital computer. (6)

MODULE V

19. a) How do you troubleshoot a CPU? (3)

b) Explain the PC handling techniques. (3)

OR

20. Explain in detail the data disaster recovery techniques. (6)
