

Register No:

Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER INTEGRATED MCA DEGREE EXAMINATION(R,S), NOVEMBER 2024**Integrated MCA****(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 role does the CPU play in a PC?
2. Write a short note on DDRAM.
3. Define the term southbridge.
4. What is ROM POST?
5. How does magnetic storage work, and what principle does it use to store data?
6. What are the key differences between optical and magnetic storage?
7. Write a short note on trackpad.
8. What is USB? Explain.
9. What are the best practices for preventing electrostatic discharge (ESD) when working with PC components?
10. What is differential backup?

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

11. Explain memory chips and modules with their functionalities. 6

OR

12. With the help of a neat diagram, explain the operations of a CPU. 6

MODULE II

13. Write a note on ventilation and cooling protection. 6

OR

14. Elaborate on motherboard form factors. 6

MODULE III

15. Compare IDE with SCSI interface. 6

OR

16. Write notes on different types of compact disk. 6

MODULE IV

17. Explain the architecture of an audio adapter with the help of a diagram. 6

OR

18. What are the different types of printers? How do they function? 6

MODULE V

19. What is back up? Explain the different back up plans. 6

OR

20. Define disk structure. Discuss the process of data recovery. 6
