Register No.: ………………………………… Name: …………………………………………………………..

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (S), MAY 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. Differentiate machine language and assembly language.
2. Draw the memory hierarchy diagram. Explain how memory works.
3. List out the components of motherboard.
4. Explain ROM BIOS.
5. Elaborate on Integrated Drive Electronics.
6. Write a short note on seek time and latency.
7. What is a port? List out the characteristics of ports.
8. Distinguish impact printers and non-impact printers.
9. Illustrate data recovery.
10. Write a short note on disk structure.

PART B

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

MODULE I

11. With a neat sketch of a microprocessor, explain the functionality of its components. (6)

OR

12. Elaborate Static RAM and Dynamic RAM with examples. (6)

MODULE II

13. Write short note on chipset in motherboard with its functionality. (6)

OR

14. Explain I/O system bus with its advantages and disadvantages. (6)

MODULE III

15. Analyze optical storage devices in detail with its features. (6)

OR

16. Explain magnetic storage devices.   (6)

MODULE IV

17. Elaborate on connectors and cables used in computer system.   (6)

OR

18. Write short notes on networking hardware and devices.   (6)

MODULE V

19. Review the troubleshooting techniques and tools used in computer system.   (6)

OR

20. Explain disaster discovery. What are its different types?   (6)

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