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

SAINTGITS COLLEGE OF ENGINEERING
KOTTAYAM, KERALA

(AN AUTONOMOUS COLLEGE AFFILIATED TO
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION(R), MARCH 2021

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. Examine the role of compilers and interpreters in computer processing.
2. Draw the block diagram of a digital computer.
3. Write notes on BIOS and POST.
4. List the major functions of north bridge and south bridge.
5. Distinguish between Serial ATA and Parallel ATA.
6. What are the advantages in using solid storage devices?
7. Point out the different types of keyboards used for giving input to the computer system.
8. List any two differences between LED and LCD monitors.
9. Mention three cases where the system requires troubleshooting.
10. Is it possible to recover data from a damaged hard disk? Justify your answer.

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

11. Explain in detail the different types of computers and its applications. (6)

OR

12. Write short note on microprocessor and its characteristics with suitable examples. (6)

MODULE II

13. Explain the components of a motherboard with a neat diagram. (6)

OR

14. Analyze the need of computer system to have proper power supply, ventilation and cooling. (6)

MODULE III

15. a) Write the features of any one optical storage device used in a computer system. (3)

    b) Write the relevance of replacing HDD with SSD. (3)

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<div align="center">**OR**</div>

16. With a diagram, explain the various components of a hard disk drive. (6)

<div align="center">**MODULE IV**</div>

17. a) Point out the functionality of audio subsystem. (3)

    b) What are the different types of sound file system? (3)

<div align="center">**OR**</div>

18. Differentiate impact and non-impact printer. Explain any one impact printer. (6)

<div align="center">**MODULE V**</div>

19. Explain in detail the data recovery techniques and assess its importance in computer system. (6)

<div align="center">**OR**</div>

20. Discus the relevance of disaster recovery in IT infrastructure. (6)

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