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

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER INTEGRATED MCA DEGREE EXAMINATION (R), DECEMBER 2023
(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 do you mean by PCI?
2. Differentiate northbridge and southbridge.
3. How will you convert AC power to DC power in a computer system?
4. Explain CMOS settings.
5. What is SCSI ID? Explain.
6. Define DVD.
7. Explain an inkjet printer.
8. List the various types of mouse.
9. Write a short note on ESD.
10. What is master boot record?

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

MODULE I

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

OR

12. Write in detail the steps to troubleshoot a CPU.   (6)

MODULE II

13. Explain the different motherboard form factors.   (6)

OR

14. What do you mean by power protection and back up in computers? Explain.   (6)

MODULE III

15. Differentiate IDE and SCSI interface.   (6)

OR

16. Write a note on optical storage.   (6)

MODULE IV

17. Explain audio adapter architecture with the help of a neat diagram.   (6)

OR

18. Write a note on the different types of printers.   (6)

MODULE V

19. Explain different backup plans.   (6)

OR

20. List out the procedures for handling ESD. Explain.   (6)

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