25804956

QP CODE: 25804956

Reg No : .....

Name : .....

I.M.C.A DEGREE EXAMINATION, NOVEMBER 2025

First Semester

Faculty of Technology and Applied Sciences

I M C A

CORE - IMCA1C04 - INTRODUCTION TO COMPUTER & PC HARDWARE

2020 ADMISSION ONWARDS

2630F4D4

Time: 3 Hours Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Briefly explain the basic components of a computer system with a neat diagram.
2. Explain the advantage of second generation over third generation.
3. Which type of computers are best suited for scientific purposes and why?
4. How important is the FPU in a CPU unit?
5. Discuss the feautures of PROM and EPROM in short.
6. Discuss SIPP with its key feautures.
7. Explain briefly the role of motherboard in the system.
8. Briefly explain Booting in short.
9. What is head actuator mechanism.
10. Explain the working of Rack and Pinion Gear mechanism.
11. Write a note on PCI Local Bus.
12. What is Memory mapped CPU and Coprocessor connection ?

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Define a Computer System. Explain in detail the basic components of a computer system with a neat diagram.

OR

b) Explain the role of CPU in a computer system. Explain in detail about the functions of ALU,CU & Memory unit in a CPU with a neat diagram.

14. a) Explain in detail about RAM and its variants.

OR

b) Explain in detail about the components and their roles in the cpu with a neat diagram.

15. a) Discuss in detail about the primary and secondary memory units in the system.

OR

b) Discuss in detail about the memory systems of our computer.

16. a) Explain two types of recording media with the hard disk drive.

OR

b) Explain the concept of head, track and cylinder in disk geometry.

17. a) Explain different components of Motherboard.

OR

b) Diffeentiate PCI Local Bus and AGP.

(5×9=45 marks)