QP CODE: 23104637

23104637

Reg No : .....

Name : .....

B.A DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE EXAMINATIONS, FEBRUARY 2023

First Semester

Complementary Course - CA1CMT01 - COMPUTER SCIENCE - COMPUTER FUNDAMENTALS

(Common to B.A Economics Model II Foreign Trade, B.A Economics Model II Insurance)

2017 Admission Onwards

29B5793E

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Write the difference between hardware and software.
2. Define super computer.
3. Explain the function of a plotter.
4. Why we use Computer Codes?
5. Define BCD.
6. Draw OR logic gate.
7. Draw the logic circuit of universal gates.
8. Define hardware with an example.
9. What do you mean by SDLC?
10. What is a flowchart? How does a flowchart help a programmer in program development?
11. What are the different types of operating system based on their functionality?
12. What is UNIX?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What are the different mode of number representation in binary?

14. Convert intol binary number system
    i) $(A1C)_{16}$ ii) $(B04)_{16}$ iii) $(234)_8$

15. Write a short note on fundamental concepts of boolean algebra.

16. Briefly explain the basic laws or postulates of boolean algebra.

17. What are universal gates? Draw all gates using NAND gate with truth table.

18. What is an assembly language? What are its advantages over machine language?

19. What is an O.S? Briefly expalin the functions of an operating system.

20. Define DOS and Windows operating system. Explain its features.

21. Briefly explain any five fields of applications of internet narrating its importance in digital world.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is “Generation” in computer terminology? Explain each of them in detail.

23. Describe the parts of a computer with a neat diagram.

24. Convert the following
    a) $(AF4)_{16}$ b)$(1011100.11)_2$ c)$(756)_8$ into other number Systems?

25. Briefly explain software and its classifications?

(2×10=20)