23147129

QP CODE: 23147129

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE EXAMINATIONS, DECEMBER 2023

First Semester

B.Sc Mathematics Model II Computer Science

Vocational Course - CA1VOT03 - COMPUTER SCIENCE - COMPUTER FUNDAMENTALS

2017 Admission Onwards

6100B163

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define computer.
2. How work stations differ from a main frame computer?
3. Convert (247)8 to decimal.
4. Convert BCD number 1111 0001 0100 0011 to its corresponding decimal equivalent.
5. Compare volatile and non-volatile storage devices with example.
6. What are the functions of control unit?
7. What is software package?
8. What is Compiler?
9. Define program.
10. What is a computer network?
11. What is optical fiber?
12. Give any four duties of a communication protocol.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain how computers are classified based on thier size.

14. Write a short note on mainframe computers and super computers.

15. Explain octal and hexadecimal number system.

16. Convert the following decimal number to binary and octal. (i) 155 (ii) 123

17. Draw and explain logical organisation of a computer.

18. Briefly explain point and draw devices.

19. Explain the advantages and limitaions of flow charts.

20. Explain different types of networks.

21. Write short notes on Electronic mail and FTP.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain in detail about various computer generations.

23. Convert the following to its corresponding equivalent as directed.
    a) (110001.100)2 = (……..)10
    b) (234)8 = (……)10
    c) (1130)10 = (…….)8
    d) (2F3)16 = (…….)8
    e) (5261)8 = (……..)16

24. Explain ouput devices.

25. Explain software development life cycle.

(2×15=30)