22102175

QP CODE: 22102175

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, JULY 2022

First Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA1VOT01 - COMPUTER SCIENCE - COMPUTER FUNDAMENTALS

2017 Admission Onwards

8DDC3F89

Time: 3 Hours | Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define Computer.
2. Write four capabilites of a computer.
3. What are hybrid computers?
4. What is hexa decimal number system?
5. What are BCD codes?
6. Add BCD numbers 683+192.
7. What is sheet-fed scanner?
8. Differentiate vertical resolution and horizontal resolution.
9. What is a voice response system?
10. Define the term hardware and software.
11. What are the main difference between a compiler and an interpreter?
12. Differentiate Shareware and Freeware.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. What are the charactaristics of a digital computer?
14. Differentiate super computer and mainframe computer.
15. With block diagram, describe the functional units of a computer?
16. Perform Octal arithmetic i) 753+651 ii) 652+473 iii) 534-452 iv) 753-156.
17. Explain different types of keyboards.
18. Discuss the components of a motherboard.
19. Write a note on magnetic disk.
20. What is application software? How it is different from system software?
21. What is utility software? Explain any three utility software.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. What are the different generations of computers? Explain.
23. Explain the basic number systems with example? Are they convertible from one form to the other? If so, explain the methods of conversion.
24. Discuss the primary memory of a computer system.
25. What are the different type of computer languages? Explain.

(2×15=30)