23124562

QP CODE: 23124562

Reg No : .....

Name : .....

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

Second Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA2VOT04 - PROGRAMMING IN ANSI C

2017 ADMISSION ONWARDS

C28665C6

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Define an interpreter.
2. Write an algorithm to find wheter the given number is even or odd.
3. Define type qualifiers in C.
4. Discuss the difference between assignment and equality.
5. What is meant by branching?
6. What is scope of a variable
7. How to initialize a string?
8. What are the library files in C?
9. Define function declaration?
10. Define actual parameters?
11. Explain how arguments are passed and results are returned?
12. Define call by value.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write the features of c language.
14. Define identifier. Write down the rules for creating identifiers.
15. Write short notes on compound statements? Illustrate with an example?
16. Explain various formats of for loop.
17. Explain for loop and nested for loop with an example.
18. Program to calculate the sum of 10 numbers. If negative number is entered, loop terminates and sum is displayed using break statement
19. Write a program to perform transpose matrix elements.
20. Write a c program to find sum and average of 10 array integers using function.
21. With the help of an example, explain the differences between a recursive function and a normal function.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. What are variable? List the rules for defing a variable along with an example.
23. Write a c program to calculate 1) addition, 2) substraction, 3) multiplication, 4) division, 5) remainder, 6) largest out of 2 numbers using switch case?
24. Briefly explain about array with suitable example.
25. Explain return values and their types(LValues and RValues).

(2×10=20)