QP CODE: 22103116

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Reg No : .....

Name : .....

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

Second Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA2VOT04 - PROGRAMMING IN ANSI C

2017 ADMISSION ONWARDS

B84C4F4A

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is an algorithm?
2. Define keywords with example.
3. Define user define data type with example.
4. List the qualifiers /Modifiers used for integer data type in C language.
5. Write a C program to find factorial of given number.
6. Define nested do - while structure.
7. How to declare array?
8. Write a C program to find length of a given string using string function?
9. What are user defined functions?
10. Define function body?
11. Why is it possible to use same variable names for actual arguments and formal arguments?
12. Define recursion.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write a short note on different types of languages.

14. Write short notes on formatted and unformatted input functions with an example.

15. List different types of operators available in C? Discuss the following with example:
    a) conditional operator b) relational operator

16. Write a C program to find a) smallest of 2 numbers b) smallest of 3 numbers using switch case.

17. Write notes on a) break b) continue and goto statements.

18. Write a program to find area of triangle, rectangle, square and cube using local and global variables.

19. Explain 2 dimensional array.

20. Differentiate function declaration and function definition with examples.

21. Write a short note on passing arrays to function.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the structure of C program with an example.

23. Write a C program to print grade for the marks obtained in various subjects using if - else-if ladder.

24. Explain library function used in stdio.h header file.

25. Explain call by value and call by refernce with suitable example.

(2×10=20)