B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2020

Second Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA2VOT04 - PROGRAMMING IN ANSI C

2017 ADMISSION ONWARDS

8E691AA6

Time: 3 Hours   Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Define C tokens. List them.

2. Define initialization of a variable with example.

3. Write about space requirements for variables of various data types.

4. What is the purpose of comma operator in C?

5. Write the use of else and default statements in if - else and switch statement, respectively

6. Define global variable.

7. Define multi-dimentional array.

8. How is an array of 10 integers declared and used in C.

9. What are built in functions?

10. Write the syntax of a function call where the function which is called takes two integers as arguments and returns an integer.

11. Define recursion

12. Define call by reference

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. What are the merits and demerits of flowchart?

14. Write short note on identifier along with valid and invalid identifier?

15. Write short notes on formatted and unformatted ouput functions with an example?

16. Write a c program to find the sum of the digits and check whether it is odd or even

17. Compare loop control structurs (for, while, do-while)?

18. Explain do - while loop and nested do - while loop with an example?

19. Write short notes on commonly used library functions?

20. Differentiate formal parameters and actual parameters with examples.

21. Write a C function which accepts three integers and returns the smallest and largest numbers among them.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Briefly explain different types of languages in detail?

23. Briefly explain goto , continue and break statements with example?

24. Briefly explain declaration and initialization of string?

25. Write a C program that uses a function to sort an array of integers.
    a) find biggest and 2nd biggest numbers
    b) find smallest and 2nd smallest numbers

(2×10=20)