QP CODE: 19103222

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Reg No : .....

Name : .....

B.Sc.DEGREE (CBCS) EXAMINATION, NOVEMBER 2019

First Semester

Core Course - CS1CRT02 - METHODOLOGY OF PROGRAMMING AND C LANGUAGE

(Common to B.Sc Computer Applications Model III Triple Main, B.Sc Computer Science Model III, B.Sc Information Technology Model III, Bachelor of Computer Application)

2017 Admission Onwards

B2EB9FA7

Time: 3 Hours Maximum Marks :80

Part A

*Answer any **ten** questions.*

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

1. List out the characteristics of a good programming language.
2. Create an algorithm to find the reverse of a number.
3. What is Debugging?
4. What are static variables?
5. Define the term 'type casting'.
6. Explain the use of getche() statement
7. What is a loop?
8. How a matrix can be declared in C?
9. What is meant by wild pointer?
10. What is user defined function?
11. Compare Union and Structure in C
12. Define a) malloc b)calloc.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Compare compiler and interpreter.
14. Explain the various control structures used in a programming language.

15. Explain various bitwise operators in C.

16. Distinguish break and continue statements with the help of examples.

17. Given are the marks of three subjects. Write a C program to display the student's grade (A - above 90%, B - above 60%, C - above 40%) using else if ladder.

18. Write a C program to find the number of vowels in a string.

19. Explain how to pass array as argument to function with example.

20. Differentiate between call by value and call by reference with the help of an example.

21. Write a program to find the sum of n numbers using recursion.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write an essay about the various types of programming languages with its advantages and disadvantages.

23. Explain different tokens in C language.

24. a) What is an array? Explain single dimensional array b) Write a C program to insert an item into a given position in an array.

25. Explain different storage classes in C with example.

(2×15=30)