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I Semester B.Voc. Degree Examination, August - 2021**INFORMATION TECHNOLOGY****Computer Programming & Problem Solving Using C****(CBCS Scheme)****Paper : BOIT1 - A024****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

Answer All sections.

SECTION - A**I. Answer any Ten questions.****(10×2=20)**

1. Write any 2 differences between break & continue.
2. Define a macro. Give one example.
3. How structure is different from union? Give its syntax.
4. Write any 4 rules for declaring variables in C.
5. What is structure programming?
6. Define string with an example.
7. What are local & global variables in C.
8. What are format specifiers in C? Give example.
9. What are actual & formal parameters?
10. Differentiate between calloc () & malloc ().
11. The C code 'for (; ;)' represents an infinite loop. It can be terminated by _____.
12. Write any 4 file handling functions.

SECTION - B**II. Answer any Five full questions.****(5×10=50)**

13. a) Explain different operators available in C with examples. (5)
b) Explain flow chart symbols in C. Write a flow chart to find GCD of a given number. (5)
14. a) Explain any 3 looping statements with an example. (5)
b) Write a C program to find a given number is prime or not. (5)

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25124

15. a) Explain if, if - else and if - else if ladder with appropriate example. (6)
b) What are the differences between call - by - value and call - by - reference.(4)
16. a) What is an array? Explain how to access an array elements with example. (2)
b) Explain 4 types of storage classes in C. (8)
17. a) Explain pointer Arithmetic in C. (5)
b) Write a C program to compare 2 strings using pointers. (5)
18. a) What is Recursion? What are the advantages & disadvantages of recursion? (5)
b) Write a C program to display Fibonacci series using recursive functions. (5)
19. a) Explain different string library handling functions used in C language. (5)
b) Explain unformatted i/o function with example. (5)
20. a) Explain file operations in C. (5)
b) What are command line arguments? Explain with an example. (5)
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