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I Semester B.A/B.Sc. Degree Examination, August - 2021

COMPUTER SCIENCE

Programming Concepts Using C

(CBCS Scheme 2015-16 Onwards F + R)

Paper : 1

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates :

Answer ALL Sections.

SECTION - A

- I. Answer any **Ten** questions. Each question carries **2** marks. (10×2=20)
- 1) What is a software? Mention its types.
 - 2) What is an algorithm?
 - 3) What are constants? Give example.
 - 4) What are local and global variables?
 - 5) Mention the different data types available in C.
 - 6) Write the difference between = and == operators.
 - 7) What is the difference between IF and SWITCH statements?
 - 8) What is a string? Give example.
 - 9) What is a called and calling function?
 - 10) Give example for getchar() and putchar() function.
 - 11) What is a pointer?
 - 12) Mention any two preprocessor directives.

SECTION - B

- II. Answer any **Five** questions. Each question carries **10** marks. (5×10=50)
- 13) a) Write a Flow Chart to find largest of 3 numbers.
 - b) Write the different relational operators and give an example for each. (4+6)
 - 14) a) Explain while statement with an example.
 - b) Write the structure of a C program and explain the various sections. (5+5)
 - 15) a) Explain different forms of if statement.
 - b) What is an array? Explain the different types of arrays with their syntax and example. (6+4)

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- 16) a) Write a C program to find sum of two matrix using arrays.
b) Explain any 5 string handling functions with example. (5+5)
- 17) a) Explain Function with argument and with return value. Give example.
b) What is recursion? Write a program to find factorial of a number using recursion. (5+5)
- 18) a) What is the use of -
i) goto statement
ii) break statement
iii) exit statement
iv) return statement
v) continue statement.
b) Explain any 2 storage classes. (5+5)
- 19) a) What is a structure? How do you declare and initialize a structure?
b) Write the use of -
i) typedef
ii) enum. (5+5)
- 20) a) Write the different file accessing modes with their meaning.
b) What is a macro? Mention the various types of macros. (5+5)
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