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Reg. No.

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I Semester B.A/B.Sc. Degree Examination, March/April - 2023

COMPUTER SCIENCE

Programming Concepts using C

(CBCS Scheme Repeaters)

Paper : I

Time : 3 Hours

Maximum Marks : 70

Instructions to candidates:

Answer all Sections

SECTION - A



Answer any TEN questions.

(10×2=20)

1. Define an identifier. Write any two identifiers.
2. Define a variable. Write the syntax of declaring a variable.
3. What is Structured programming?
4. Define an array? How do you declare and initialize a single dimensional array?
5. Explain break and continue.
6. Define function. What are the different types of functions?
7. What is a string? Write the syntax of declaring a string.
8. Define structure. Write the format of defining a structure.
9. Define pointer. How to declare a pointer?
10. Differentiate between actual and formal arguments.
11. What are the uses of fwrite () and fread () functions?
12. What is a macro? Mention its types.

SECTION - B

Answer any FIVE questions. Each question carries ten marks.

(5×10=50)

13. a) Explain the structure of C program with an example. (5)
b) What is software? Mention the classifications of software. (5)

[P.T.O.]



14. a) Explain the different data types supported by C. (5)
b) Explain Relational operators with an example. (5)
15. Explain the different looping statements with an example. (10)
16. a) Write a flowchart to find the sum of N natural numbers. (5)
b) Explain the working of if and if-else statement with examples. (5)
17. What is a recursive function? illustrate it with a program. (10)
18. a) Explain call by value and call by reference with an example. (5)
b) Write a program to find the length of a string using pointer. (5)
19. a) Explain the various string handling functions in C. (5)
b) Write the differences between structure and union. (5)
20. a) What are preprocessor directives. (5)
b) Explain static and dynamic memory allocation. (5)
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