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I Semester B.A./B.Sc. Examination, March 2023
(CBCS) (Repeaters)
(2014-15 and Onwards)
COMPUTER SCIENCE – I
Programming Concepts Using C

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer **all** the Sections.*

SECTION – A

Answer **any ten** questions. **Each** question carries **two** marks.   (10×2=20)

1. What is an Algorithm ? Give one of its advantage.

2. What is software ? Mention the classification of software.

3. Explain ternary operator.

4. What are local and global variables ?

5. Mention the different data types supported in 'C' language.

6. Explain break and continue statements.

7. Define array. How can an array be initialized ?

8. Define pointer with an example.

9. Distinguish between calloc() and malloc().

10. Give the difference between structure and union.

11. Write any four file functions.

12. What are actual and formal parameters ?

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 a flowchart ? Write its symbols.   5

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14. a) Explain arithmetic and relational operators with an example.   5

    b) Describe in detail the syntax errors, logical errors and runtime errors.   5

15. a) Explain formated input-output functions in 'C' language.   5

    b) Explain any three looping statements with an example.   5

16. a) Explain the function definition and function prototyping.   5

    b) Explain the difference between call by value and call by reference.   5

17. a) Write a 'C' program to find factorial of a number.   5

    b) Explain switch care statement with an example.   5

18. a) Write a 'C' program to display fibonacci series using recursive functions.   5

    b) Explain different storage classes in 'C' language.   5

19. a) What is a file ? Explain three modes of files.   5

    b) What are pre-processor directive ?   5

20. a) Explain string operations with an example.   5

    b) Explain static and dynamic memory allocation.   5

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