K21I 0021

Reg. No. : ....

Name : ....

I Semester Integrated M.Sc. Degree (Reg./Supple./Imp.) Examination, October 2021
(2020 Admission Onwards)
COMPUTER SCIENCE
1B01ICSC : Introduction to C Programming

Time : 3 Hours   Max. Marks : 40

PART – A

Answer **all** the questions. **Each** carries **1** mark.

1. What are the properties of an algorithm ?

2. What are keywords ? Give examples.

3. Give any four symbols used in flowcharts. What is their meaning ?

4. Give the general structure of the C program.

5. What are identifiers ? Give examples.

6. List any two C compilers.

PART – B

Answer **any 6** questions. **Each** carries **2** marks.

7. What are C tokens ? Explain.

8. Can an identifier be a keyword ? Justify your answer.

9. What are variables in C ? Give any two examples.

10. What is a conditional operator ? Explain.

11. What is meant by typecasting ? Explain.

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12. What are special operators ? Give examples.

13. What is the use of printf() ? Explain.

14. What is the difference between union and structure ?

PART – C

Answer **any 4** questions. **Each** carries **3** marks.

15. Write an algorithm to find the sum of *n* numbers.

16. Differentiate entry controlled and exit controlled loops.

17. What are arrays ? How are they different from structure ?

18. What are the logical operators available in C ? Explain.

19. Explain increment and decrement operators.

20. With the help of a suitable example, explain the if-else ladder.

PART – D

Answer **any 2** questions. **Each** carries **5** marks.

21. How Flowchart and Algorithms are useful in designing your program ? Explain. Design a flowchart to reverse a given number.

22. Explain various data types in C language.

23. Explain different looping structures in C language.

24. Write a program to sort a given set of numbers.

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