

1811000101040001

First Year B.C.A (Sem –I)

Examination March-2023

Computer Programming & Programming Methodology

Seat No:

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[Time: Three Hours]

[Max. Marks:70]

Student's Signature

Q.1 Answer following questions (Any Ten) 10

1. Define algorithm.
2. Give difference between object code and executable code.
3. Write in brief about file inclusion directive.
4. What is the working of getch() function?
5. Explain ternary operator with example.
6. What is the use of break and default keywords in switch case?
7. Write in brief about nested loop concept.
8. Explain the use of '\0' with example.
9. What is the functioning of sizeof() function?
10. Write difference between '=' and '==',
11. What is the meaning of void pointer?
12. How to take pointer to single dimensional numeric array?

Q.2 Answer following questions (Any Three) 18

1. Define Flowchart. Give different symbols of flowchart for representing different steps. Also give pros and cons of flowchart.
2. Explain compiler control directives.
3. Explain structure of C program with example.
4. What is variable? Explain how to declare variable. Also explain different datatypes available in C language.
5. What is operator? List down different types of operators and give explanation of any two.

Q.3 Answer following questions (Any Three) 18

1. Explain about any three input and three output functions with example.
2. Explain Nested IF statement in detail.
3. Explain any three math and three string functions with example.
4. Explain do-while loop with example. Also give reason why it is best for menu driven programs?
5. Explain switch case statement in detail.

Q.4 Answer following questions (Any Three) 18

1. Explain any one single dimensional numeric array operation in detail.
2. Explain nested for loop with example.
3. Explain jumping statements in detail.

4. Explain concept of pointer. Also give difference between array and pointer.
5. Explain one dimensional character array with example.

Q.5 **Do as directed (Any One)** **06**

1. Write an algorithm or program for finding factorial of given positive number.
2. Write an algorithm or program for counting positive and negative numbers from 1-D numeric array.