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BCA (Sem-I)

Examination June-2023

Computer Programming & Programming Methodology

Seat No:

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[Time: Three Hours]

[Max. Marks: 70]

- Instructions:**
1. All questions are compulsory.
 2. Figure to the right indicate full marks.
 3. Mention your options clearly.

Student's Signature

Q.1 Answer following questions (Any 10)

10

1. _____ refers to a sequence of finite steps to solve a particular problem.
(A) List (B) Algorithm (C) Block (D) None of these
2. Which of the following is not a valid variable name?
(A) int n_m; (B) int n1; (C) int \$n; (D) int n123;
3. Which symbol is used by preprocessor directives?
(A) \$ (B) # (C) @ (D) _
4. What will be value of x in the following expression?
x=3+2*6/2;
(A) 9 (B) 15 (C) 0 (D) 22
5. Suppose, value of variable x is 10, which of the following will increment value of x by 1?
(A) x+=1; (B) x++; (C) ++x; (D) All of these
6. Which of the following is not a valid bitwise operator?
(A) & (B) | (C) > (D) >>
7. Which data type is not valid with a switch statement?
(A) char (B) short (C) int (D) float
8. _____ is used to exit from switch case after a match is found.
(A) goto (B) break (C) continue (D) default
9. How many iterations following for loop performs?
for(i=1;i<=1;i++){ }
(A) 0 (B) 1 (C) 2 (D) Infinite
10. Which loop will first execute the logic and then check the condition?
(A) for (B) while (C) do-while (D) All of these

11. Which of the following is correct way to declare array?
(A) int a[5]; (B) int a{5}; (C) int a(5); (D) int a<5>;
12. Which of the following is ternary operator?
(A) ?: (B) ?; (C) ?= (D) ?%

Q.2 Answer following questions (Any three)

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1. What is flowchart? Explain symbols used in flowchart. Also discuss advantages and disadvantages of flowchart.
2. Explain structure of C program.
3. Explain data types.
4. Explain if decision making statement.

Q.3 Answer following questions (Any three)

18

1. Explain formatted input and output functions with format specifiers.
2. What is an operator? Discuss about relational and logical operators with example.
3. Differentiate between entry controlled and exit controlled loops. Explain exit-controlled loop.
4. Explain for loop with all variations.

Q.4 Answer following questions (Any three)

18

1. What is a string? Explain about 1D character arrays.
2. Explain gets(),getc(),getchar() and getch() functions.
3. Explain any 3 string functions.
4. Write note on Pointer.

Q.5 Do as directed. (Any one)

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1. Write a program to Search an element in array using linear search.
2. Write a program to display the factorial of given number.