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B.C.A. (Sem-I)

Examination November-2022

Computer Programming & Programming Methodology

Seat No:

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[Time: Three Hours]

[Max. Marks:70]

Student's Signature

Q.1 Answer in short. (Any Ten)

10

1. What is structured programming?
2. Give difference between compiler and interpreter.
3. Give example of comment.
4. What is use of #include directive?
5. Give example of sizeof() operator.
6. Explain ceil() function.
7. Give difference between = and ==.
8. Is default compulsory with switch? Justify.
9. What is nested loop? Give example.
10. What is jumping? Give example of forward jump.
11. What is void pointer? Give example.
12. What is use of \0 in a string?

Q.2 Answer following questions (Any Three)

18

1. What is flowchart? Give rules of drawing flowchart. Also give advantages and disadvantages.
2. Write a note on basic structure of C program.
3. Explain datatypes of C language.
4. What is variable? Give rules for naming variables. Also differentiate with constant.
5. What is an operator? Explain relational and logical operators with example.

Q.3 Answer following questions (Any Three)

18

1. Explain formatted input statement with format specifiers.
2. Explain any 3 string functions with their syntax and example.
3. Explain type conversion with example.
4. Explain SWITCH statement with example.
5. What is branching? Explain IF branching statement.

Q.4 Answer following questions (Any Three) 18

1. Give difference between entry controlled and exit controlled loops. Explain exit-controlled loop in detail.
2. Explain for loop in detail.
3. What is an array? Explain 1D array of numbers.
4. What is sorting? Explain process of bubble sort.
5. Explain pointers in detail.

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

1. Write a program to find sum of digits of a number.
2. Write a program to accept a string and check whether it is palindrome or not.