[93/A31]

SARDAR PATEL UNIVERSITY

BCA (Semester – I) NC EXAMINATION

Fundamentals of Computer Programming Using 'C' [US01CBCA01]

DATE: 14/11/2019, Thursday   TIME: 2:00P.M. TO 5:00P.M.Total Marks: 70

Q.1 **Pick up the correct alternative for each of the following questions:**   **[10]**

1. _____is a step by step approach to solve any problem.
   - A. Process
   - B. Programming Language
   - C. Algorithm
   - D. Compiler

2. _____is a pictorial representation of an algorithm.
   - A. Flowchart
   - B. Data Diagram
   - C. Pie Chart
   - D. Program

3. _____ is easily relocatable language.
   - A. Machine Language
   - B. Assembly Language
   - C. High Level Language
   - D. Medium Level Language

4. The range of int data type is _____ bytes.
   - A. 2
   - B. 4
   - C. 8
   - D. 16

5. The value can be changed during program execution is known as _____.
   - A. Variable
   - B. Constant
   - C. Operator
   - D. None of these

6. Do-while loop is also known as _____ loop.
   - A. Entry level
   - B. Exit level
   - C. A & B
   - D. None of these

7. The Switch expression can be an _____ type.
   - A. Integer
   - B. Float
   - C. Double
   - D. None of these

8. '\0' is _____.
   - A. Null Character
   - B. Character Value
   - C. Escape Sequence
   - D. Symbolic Constant

9. _____function is use for reverse the string.
   - A. strcpy()
   - B. strlen()
   - C. strupr()
   - D. strrev()

10. All function by default return _____.
    - A. Integer
    - B. float
    - C. void
    - D. string

Q.2 **Attempt any ten from following:**   **[20]**

1. List symbols used to draw flow chart.
2. List Rules to draw flow chart.
3. List Characteristics of an algorithm.
4. Write Rules of variable name.
5. Explain ternary operator with example.
6. Explain if statement with example.
7. Write difference between exit and entry controlled loop.
8. Explain do-while statement with example.
9. Explain break statement with example.
10. What is library function?
11. Write advantages of function.
12. List out the category of function.

| Q.3 | [A] | Explain symbols used to draw a flow chart. | [06] |
| | [B] | Write an algorithm to find out minimum number from N numbers. | [04] |

OR

| Q.3 | [A] | Explain High Level Language. | [06] |
| | [B] | What is Translator? Explain compiler. | [04] |

| Q.4 | [A] | Explain Arithmetic operator & Relational operator with example. | [06] |
| | [B] | Explain how to declare and initialize a variable with example. | [04] |

OR

| Q.4 | [A] | Explain basic data types used in C language. | [06] |
| | [B] | Explain switch statement with syntax and example. | [04] |

| Q.5 | | Explain while and for loop with syntax and example. | [10] |

OR

| Q.5 | | Define 1D array? Explain the declaration and initialization of 1D array with syntax and example. | [10] |

| Q.6 | [A] | Explain gets and puts function with syntax and example. | [06] |
| | [B] | Explain function definition with syntax and example. | [04] |

| Q.6 | [A] | Explain the function category with argument and return value with example. | [06] |
| | [B] | Explain function call with syntax and example. | [04] |

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