

Seat No: _____

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[11]

SARDAR PATEL UNIVERSITY
BCA – Ist SEMESTER (CBCS) (REGULAR)
DATE: 15/06/2021, Monday TIME: 09:00 a.m TO 11:00 P.M
US01BCA51 || Programming Fundamental Using C

Maximum Marks: 70

Q.1 Answer 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 What is the standard decision symbol for a flowchart?
a) circle b) lozenge c) square d) diamond
- 3 The combination of ? and : is known as _____ operator.
a) dot b) Arithmetic c) ternary d) Relational
- 4 _____ format specifier is used for floating data type.
a) %d b) %e c) %c d) %f
- 5 _____ section consists of header files.
a) Link b) Definition c) Documentation d) main
- 6 _____ statement terminates the execution of loop.
a) Continue b) break c) switch d) none of these
- 7 Do-while loop is also known as _____ loop.
a) Exit controlled b) Entry controlled c) a and b d) None of this
- 8 In Array subscript begins with _____.
a) One b) Zero c) Three d) None of these.
- 9 If $x = 'z' - 1$; then x will be _____.
a) $x = 121$ b) $x = 125$ c) $x = 112$ d) None of these
- 10 To declare string _____ data type is used.
a) int b) char c) float d) All of above

Q.2 Fill in the blanks and True/False.

[08]

- 1 _____ is a pictorial representation of an algorithm.
- 2 The size of int data type is _____ bytes.
- 3 _____ loop executes at least once.
- 4 _____ is a sequence of characters that is treated as a single data item.
- 5 C language is low level language. (True/False)
- 6 The value that cannot be changed during program execution is known as constant. (True/False)
- 7 '\0' is called Null character. (True/False)
- 8 scanf() function is used to read a string from the keyboard. (True/False)

Q.3 Explain following in brief. (Attempt any Ten)

[20]

- 1 Write characteristics of an algorithm.
- 2 Write difference between Interpreter and Compiler.
- 3 What is an Editor? Give 3 examples of Well Know Editors.
- 4 Write rules to define a valid variable name
- 5 Explain goto statemnet in brief.
- 6 Explain printf() statement in brief.
- 7 Write and explain syntax of simple if statement.
- 8 Explain continue statement with example
- 9 Explain switch statement in brief.
- 10 Explain strcpy () function in brief
- 11 Explain islower () function in brief.
- 12 Explain sqrt() function in brief.

Q.4 Explain the following in detail. (Attempt any Four)

[32]

- 1 What is Flowchart? Also explain symbols used to draw flowchart.
- 2 Explain High level and Machine Level language in detail.
List and explain data types available in C Language
- 3 Explain if...else and nested if ..else with syntax and example
- 4 List all operators and explain any three operators in detail
- 5 Explain declaration and initialization of 1-D array with syntax and example.
- 6 Explain following function with syntax and example.
(1) abs() (2) strrev() (3) strlen() (4) clrscr()
- 7 What is user define function? Explain elements of user define function.
- 8 Explain the following category of function with example
1) No argument & No Return value 2) with argument & return value
