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[19]

SARDAR PATEL UNIVERSITY
BCA – 1st SEMESTER (CBCS) (REGULAR & NC)
DATE: 10/12/2022, Saturday TIME: 10:00 am TO 01:00 pm
US01CBCA51 || Programming Fundamental Using C



Maximum Marks: 70

Q.1 Answer the following questions.

[10]

- 1 _____ is a pictorial representation of an algorithm.
a) Data Diagram b) Flow Chat c) Pie Chart d) Program
- 2 _____ converts the programs written in assembly language into machine instructions.
a) Translator b) Assembler c) Interpreter d) Compiler
- 3 The combination of ? and : is known as _____ operator.
a) Dot b) Arithmetic c) Ternary d) Relational
- 4 _____ format specifier is used for int data type.
a) %c b) %e c) %d d) %f
- 5 The size of int data type is _____ bytes.
a) 1 b) 4 c) 8 d) 2
- 6 _____ Statement skips the remaining statement of the loop and transfers control to the condition.
a) break b) switch c) if d) continue
- 7 _____ loop executes at least once.
a) do.....while b) while c) if d) for
- 8 For declaring two- dimensional array _____ subscript is used.
a) Two b) One c) Three d) All above
- 9 gets () function is available in _____ header file.
a) <stdio.h> b) <conio.h> c) <math.h> d) All of above
- 10 strcmp("ABCD","abcd") = _____
a) 0 b) -32 c) 32 d) -1

Q.2 Explain following in brief. (Attempt any Ten)

[20]

- 1 What is an Algorithm? Write characteristics of an algorithm.
- 2 What is Translator? Explain any one translator in brief.
- 3 What is an Editor? Give 3 examples of Well Known Editors.
- 4 Write rules to define a valid variable name
- 5 Explain short hand operator in brief.
- 6 Explain scanf() statement in brief.
- 7 Write and explain syntax of simple if statement.
- 8 Explain break statement in brief.
- 9 Write syntax of compile time initialization of 2-D array with example.
- 10 Explain clrscr () function in brief
- 11 Explain abs () function in brief.
- 12 Explain sqrt() function in brief.

[1]

[P.T.O]

- Q.3 [A] Explain Machine Level and Assembly Level language in detail. [06]
[B] Write an algorithm and draw a flow chart to calculate Simple Interest. [04]

OR

- Q.3 [A] List and Explain different Symbols used to draw flowchart. [06]
[B] Explain High level language in detail. [04]

- Q.4 [A] Draw and Explain Basic structure of C program. [06]
[B] Explain Logical and Assignment operator in detail. [04]

OR

- Q.4 [A] List all and explain any three data types available in C Language [06]
[B] Explain Arithmetic and Relational operator in detail. [04]

- Q.5 [A] Explain declaration and initialization of 1-D array with syntax and example. [06]
[B] Explain switch statement with syntax and example. [04]

OR

- Q.5 [A] Explain while and for loop with syntax and example. [06]
[B] Explain if...else statement with syntax and example. [04]

- Q.6 [A] List all and explain any four string handling functions with syntax and example. [10]

OR

- Q.6 [A] List all and explain any four functions of <ctype.h> header file with syntax and example [10]

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