-[79]

Sardar Patel University
F.Y.B.C.A. (1st Semester) Examination, Nov- 2013
US01CBCA01 || Fundamentals of Computer Programming Using C

Date: 19-11-2013 (Tuesday)
Time: 02.30 pm to 5.30 pm   **Total Marks: 70**

Q.1 Answer the following questions.   **[10]**

1   The step by step solution of any problem is known as _____.
    a) Algorithm   b)Hardware   c) Flowchart   d) Software

2   Which of the following translators translate high level language into machine level
    language line by line?
    a) Compiler   b) Interpreter   c) Assembler   d) Both a & b

3   What is the output of 5/(4-2)%3?
    a) 2   b) 1   c) 6   d) 0

4   The value can not be changed during program execution is known as _____.
    a) Variable   b) Constant   c) Operator   d) None of these

5   In switch statement as an expression we can pass _____ type of value.
    a) Only integer b) Only character c) integer or character d) none of these

6   Do..while loop is also known as _____ loop
    a) Infinite   b) entry control c) Both a & b   d) Exit control

7   A parameter list in function can be separated by _____
    a) Question marks (?) b)) Exclamatory marks (!) c) Commas (,) d) None of these

8   strcmp("Hello","hello") will return _____
    a) 32   b) 0   c) 10   d) -32

9   puts () function is available in _____ header file.
    a) <stdio.h>   b) <conio.h>   c) <math.h>   d) All of above

10 _____ format specifier used for floating data type.
    a) %d   b) %f   c) %c   d) %e

Q.2 Explain following in brief. (Attempt any 10)   **[20]**

1   What is an Editor? Give 3 examples of Well Know Editors.
2   Write difference between compiler and Interpreter.
3   List characteristics of an algorithm.
4   Explain ternary operator with syntax and example.
5   Write Rules of variable name.
6   Explain simple if statement in brief.
7   Explain in brief: continue.
8   Explain do..while statement in brief.
9   Explain isdigit() function in brief.
10 Write down advantages of UDF.
11 List components of user defined function.
12 Explain strcpy() function in brief.

(P.T.O)

Q.3 **A.** Write a note on Language Generation. [04]

B. List and explain symbol used in drawing a flowchart. [06]

OR

Q.3 **A.** What is Flowchart? Write an algorithm to find factorial of given number. [04]

B. What is Computer Language? Explain Machine level and Assembly language in detail. [06]

Q.4 **A.** What is an Operator? Explain Arithmetic & Relational Operators with example. [05]

B. Draw and explain Basic Structure of C program. [05]

OR

Q.4 **A.** Explain Switch statement in detail with proper syntax and example. [05]

B. Explain Input and output statement with syntax and example. [05]

OR

Q.5 **A.** What is an Array? List Types of an Array and also Explain initialization and declaration of 1-D array with syntax and Examples. [07]

B. Explain abs () and isalpha() with syntax and example. [03]

OR

Q.5 **A.** What is looping? List entry controlled loops and explain with syntax and proper Example. [07]

B. Explain islower () and sqrt () with syntax and example. [03]

Q.6 **A.** What is User-defined Function? Explain categories of user defined function with syntax and example. [10]

OR

Q.6 **A.** What is String? List all string handling function and also explain any three with syntax and example. [10]

Best of Luck