

SARDAR PATEL UNIVERSITY
B. C. A. (CBCS) (I Semester) Examination
6th April 2016 (Wednesday)
2.30 pm – 5.30 pm

US01CBCA01 : FUNDAMENTAL OF COMPUTER PROGRAMMING USING 'C'

Total Marks : 70

Q.1 Multiple choice questions:

[10]

1. _____ is a step by step approach to solve any problem.
 - (a) Process
 - (b) Programming Language
 - (c) Algorithm
 - (d) Compiler
2. Which of the following is machine independence program?
 - (a) High level language
 - (b) Machine language
 - (c) Assembly language
 - (d) Low level language
3. The translator program used in assembly language is called _____.
 - (a) Compiler
 - (b) Interpreter
 - (c) Assembler
 - (d) Translator
4. The value can be changed during program execution is known as _____.
 - (a) Variable
 - (b) constant
 - (c) Operator
 - (d) None of these
5. By default _____ digits in float type variable after decimal point.
 - (a) 2
 - (b) 4
 - (c) 6
 - (d) 8
6. _____ statement terminates the execution of loop.
 - (a) Continue
 - (b) break
 - (c) switch
 - (d) none of these
7. '\0' is _____.
 - (a) Symbolic
 - (b) Character value
 - (c) Escape sequence
 - (d) Null Character
8. _____ function count and return the number of character in a string.
 - (a) strcpy()
 - (b) strlen()
 - (c)strupr()
 - (d) strrev()
9. A _____ statement that returns the value evaluated by the function.
 - (a) goto
 - (b) break
 - (c) return
 - (d) none of these
10. _____ is the user define function:
 - (a) main ()
 - (b) printf ()
 - (c) scanf ()
 - (d) sqrt ()

- Q.2 Attempt any ten out of twelve. [20]
1. What is an algorithm? List Characteristics of an algorithm.
 2. Write algorithm for find maximum of given three numbers.
 3. What is an Editor? Give 3 examples of Well Know Editors.
 4. Write difference between pre-increment and post- increment operator.
 5. Explain ternary operator with example.
 6. Draw the basic structure of C program.
 7. Write difference between break and continue.
 8. List out any four header file for library function.
 9. Write syntax of switch case.
 10. What is string? How we can initialize the string variable. give one example.
 11. What is function prototype?
 12. Write difference between user define function and library function.
- Q.3 Write a note on Language Generation. Explain compiler, Interpreter and Assembler. [10]
- OR
- Q.3 What is Flowchart? Explain Rules to draw flowchart, symbols used to draw a flow chart with one example. [10]
- Q.4 (a) Explain if...else & nested if statement with syntax and example. [05]
- (b) What is operator? Explain different operators with example. [05]
- OR
- (a) What is Variable? How to declare and initialization of variable with example. Write difference between a variable and a constant. [5]
- (b) Explain basic data types used in C language. [05]
- Q.5 (a) Define array? Also explain declaration of 1D and 2D array with syntax and example. [06]
- (b) Explain for loop with example. [04]
- OR
- (a) Differentiate while and do...while loop with example. [06]
- (b) Explain structure programming in detail. [04]
- Q.6 (a) A. Explain the following library function with syntax and example: [06]
- 1) strlen() 2) strrev() 3) strcmp()
- (b) Explain the function category with argument and return value with example. [04]
- OR
- Q.6(a) A. Explain the following library function with syntax and example: [06]
- 1) sqrt () 2) abs () 3) clrscr ()
- (b) Explain command line argument with example. [04]