[94]
SARDAR PATEL UNIVERSITY
BCA (Sem- 1)
US01CBCA21: Programming Fundamental Using C

Date: 11-11-2019   Time : 02.00 pm – 05.00 pm   Marks: 70
Monday

Q-1   **Select the correct option.**   **10**

(1) _____ is a pictorial representation of an algorithm.

   A   Data Diagram   B   Flow Chart

   C   Pie Chart   D   Program

(2) What is the standard decision symbol for a flowchart?

   A   circle   B   lozenge

   C   diamond   D   square

(3) The size of int data type is _____ bytes.

   A   2   B   4

   C   8   D   machine dependent

(4) The combination of ? and : is known as _____ operator.

   A   Ternary   B   Arithmetic

   C   dot   D   Relational

(5) _____ loop executes at least once.

   A   while loop   B   do...while

   C   if   D   for

(6) For declaring two- dimensional array _____ subscript is used.

   A   One   B   Two

   C   Three   D   All above

(7) To declare string _____ data type is used.

   A   int   B   char

   C   float   D   All of above

(8) _____ function is used to read the string with whitespaces.

   A   gets()   B   puts()

   C   getc()   D   putc()

(9) Mnemonic codes are used in _____ language.

   A   Machine Language   B   High Level Language

   C   Assembly Language   D   None of above

(10) _____ format specifier is used for floating data type.

   A   %d   B   %e

   C   %c   D   %f

(PTO)

Q-2   Do as directed. (ATTEMPT ANY TEN)   20

(1) Draw a flowchart to find simple interest. (simple interest = P*R*N/100)

(2) What is Translator? List out them.

(3) List Rules to draw flow chart.

(4) Draw the basic structure of C program.

(5) Write rules for naming variables.

(6) Explain scanf() statement with example.

(7) Write and explain syntax of if...else statement.

(8) Differentiate break and continue statement.

(9) How can we initialize 2-D array at run time?

(10) Define string. List ANY FOUR string handling functions.

(11) Explain abs ( ) function in brief.

(12) Explain strlen ( ) function in brief.

Q-3 **A** What is flow chart? Explain symbols used to draw a flow chart.   6

B Explain machine level language.   4

OR

A Explain high level language.   6

B Write difference between Interpreter and Compiler.   4

Q-4 **A** Define variable. Explain declaration and initialization of variable with example.   5

B Explain conditional and logical operator with example.   5

OR

A Explain arithmetic operator and relational operator with example.   5

B Explain increment and decrement operator with example.   5

Q-5 Explain all looping statements with syntax and example.   10

OR

Define array. Explain 1-D array in detail.   10

Q-6 **A** Explain: [1]. strrev ( ) function   [2]. strcmp() function   5

B Explain: [1]. sqrt( ) function   [2]. pow() function   5

OR

A Explain: [1]. isalpha( ) function   [2]. islower() function   5

B Explain: [1]. strcpy( ) function   [2]. strcat() function   5

— x —

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