

(3g & A-28) Seat No.:

No. Of Printed Pages: 2

SARDAR PATEL UNIVERSITY

B.C.A.(Sem-1) Examination

US01CBCA01: Fundamentals of Computer Programming using C

Date: 17-11-2016, Thursday

Time : 10.00^{AM} - 1.00 pm

Marks: 70

Q-1 Select the correct option for the following questions.

10

- (1) _____ is a pictorial representation of an algorithm.
 - A. Data Diagram
 - B. Flow Chart
 - C. Pie Chart
 - D. Program
- (2) The translator program used in assembly language is called _____.
 - A. Compiler
 - B. Interpreter
 - C. Assembler
 - D. Translator
- (3) The range of int data type is _____ bytes.
 - A. 2
 - B. 4
 - C. 6
 - D. 8
- (4) The combination of ? and : is known as _____ operator.
 - A. Arithmetic
 - B. Ternary
 - C. Relational
 - D. dot
- (5) _____ format specifier used for floating data type.
 - A. %d
 - B. %c
 - C. %e
 - D. %f
- (6) _____ loop execute at least once.
 - A. while loop
 - B. do...while
 - C. for
 - D. if
- (7) For declaring one- dimensional array _____ subscript is use.
 - A. 1
 - B. 2
 - C. 3
 - D. 4
- (8) _____ is return the absolute value.
 - A. abs()
 - B. sqrt()
 - C. bas()
 - D. pow()
- (9) isupper() function is available in _____.
 - A. <string.h>
 - B. <ctype.h>
 - C. <conio.h>
 - D. <math.h>
- (10) User Defined Function can be classified in to _____ category.
 - A. 1
 - B. 2
 - C. 3
 - D. 4

Q-2	Do as directed. (ATTEMPT ANY TEN)	20
(1)	What is Translator? List all translators.	
(2)	What is an Editor? Give 3 examples of Well Know Editors.	
(3)	Write a flowchart to find simple interest. [Hint: $SI = (P * R * N)/100$]	
(4)	Write Rules of variable name.	
(5)	Explain if statement with example	
(6)	Explain ternary operator with example.	
(7)	Explain while statement with example.	
(8)	Explain the sqrt () function.	
(9)	Explain structure programming in brief.	
(10)	What is user – define function? Give one example of user define function.	
(11)	Explain gets () function with syntax and example.	
(12)	Explain strem () function with syntax and example.	
Q-3	A What is Flowchart? Explain Rules to draw flowchart. Also explain symbols used to draw flowchart.	6
	B Write difference between Interpreter and Compiler.	4
OR		
Q-3	A Explain High Level Language and Assembly Language in Detail.	6
	B What is an algorithm? List Characteristics of an algorithm.	4
Q-4	A Explain Basic Structure of C program.	5
	B Explain Arithmetic operator & Relational operator with example.	5
OR		
Q-4	A Explain basic data types used in C language.	5
	B Explain switch statement with syntax and example.	5
Q-5	A Write a short note on for loop.	5
	B Explain: [1]. abs() and [2]. isupper()	5
OR		
Q-5	A Explain the declaration and initialization of ID array with syntax and example.	5
	B Explain: [1]. isalpha() and [2]. islower()	5
Q-6	Explain the following function with syntax and example. [1]. strlen() [2]. strcpy() [3]. strcat(). [4]. strrev()	10
OR		
Q-6	Write a short note on the category of function with an example.	10

Best of luck,

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