

C.U.SHAH UNIVERSITY

Winter Examination-2019

Subject Name : Programming Basics using C Language

Subject Code :4CS01IPC2

Branch: B.Sc.I.T.

Semester : 1

Date : 25/11/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1

Attempt the following questions:

(14)

- 1 Translator which is used to convert codes of assembly language into machine language is termed as
 - a. Assembler
 - b. Attempter
 - c. Compiler
 - d. debugger
- 2 Who is known as the father of C Language
 - a. James A. Sosling
 - b. VjarneStroustrup
 - c. Dennis Ritchie
 - d. Dr. E. F. Codd
- 3 Name the loop that executes at least once.
 - a. For
 - b. If
 - c. do-while
 - d. while
- 4 The format identifier '%i' is also used for _____ data type?
 - a. Char
 - b. Int
 - c. Float
 - d. double
- 5 What is the size of an int data type?
 - a. 4 Bytes
 - b. 8 Bytes
 - c. Depends on the system/compiler
 - d. Cannot be determined.
- 6 In C, if you pass an array as an argument to a function, what actually gets passed?
 - a. Value of elements in array
 - b. First element of the array
 - c. Base address of the array



- d. Address of the last element of array
- 7 Which of the following function sets first n characters of a string to a given character?
- a. `strinit()`
 - b. `strnset()`
 - c. `strset()`
 - d. `strcset()`
- 8 How will you print `\n` on the screen?
- a. `printf("\n");`
 - b. `echo "\n";`
 - c. `printf('\n');`
 - d. `printf("\\n");`
- 9 Which of the following function is more appropriate for reading in a multi-word string?
- a. `printf();`
 - b. `scanf();`
 - c. `gets();`
 - d. `puts();`
- 10 Which of the following cannot be checked in a *switch-case* statement?
- a. Character
 - b. Integer
 - c. Float
 - d. enum
- 11 Which of the following special symbol allowed in a variable name?
- a. * (asterisk)
 - b. | (pipeline)
 - c. - (hyphen)
 - d. _ (underscore)
- 12 How would you round off a value from 1.66 to 2.0?
- a. `ceil(1.66)`
 - b. `floor(1.66)`
 - c. `roundup(1.66)`
 - d. `roundto(1.66)`
- 13 By default a real number is treated as a
- a. float
 - b. double
 - c. long double
 - d. far double
- 14 What are the different types of real data type in C ?
- a. float, double
 - b. short int, double, long int
 - c. float, double, long double
 - d. double, long int, float



Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
1	Discuss Assembly and Higher Level language	5
2	Write a note on flowchart with example	5
3	Write a note on Algorithm with example	4
Q-3	Attempt all questions	(14)
1	Discuss Basic Structure of C	5
2	Write a note on Character set and C Tokens	5
3	Discuss Identifiers and Keywords in C language with example	4
Q-4	Attempt all questions	(14)
1	Write a note on Data Types in C	5
2	Write a note on Constants and Variables	5
3	Discuss Types of Operators	4
Q-5	Attempt all questions	(14)
1	Write a note on If statement, If-else statement with example	5
2	Write a note on For loop , Nested loop with example	5
3	Discuss break, continue, goto, exit	4
Q-6	Attempt all questions	(14)
1	Discuss Two dimensional array and Multi dimensional array	5
2	Write a note on String Operations	5
3	Discuss getch() , getche(),sqrt(),floor()	4
Q-7	Attempt all questions	(14)
1	Write a note on Elements of User Defined Function	5
2	Write a note on Recursion with example	5
3	Explain Function with no argument but return value and Function with no argument and no return value	4
Q-8	Attempt all questions	(14)
1	Discuss Switch statement with example	5
2	Discuss Storage class	5
3	Discuss strcat(),strlwr(),toupper(),tolower()	4

