P P SAVANI UNIVERSITY

First Semester of Bsc_it. Examination December 2022

SSIT1010: Introduction to Computer Programming

Time: 01:00 a.m. To 03:30 p.m. 25.11.2022, Friday

Maximum Marks: 60

Instructions:

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- The question paper comprises of two sections.
 Section I and II must be attempted in separate answer sheets.
 Make suitable assumptions and draw neat figures wherever required.
- 4. Use of scientific calculator is allowed.

	SECTION - I			
Q-1	Answer the following Question (Any Five)	[05]	CO	BTL
(i)	What are the key features in the C programming language?		3	1
(ii)	What are the basic data types associated with C?		3	2
(iii)	What is the description for syntax errors?		1	1
(iv)	Define Operators.		2	2
(v)	What is a nested loop?		3	2
(vi)	Definition of Array.		1	1
(vii)	Describe static function with its usage?		3	2
Q-2(a)	What do you mean by datatype. List and explain different datatypes with examples.	[05]	1	2
Q-2(b)	Write a program to check the given number is odd or even.	[05]	3	6
	OR			
Q-2(a)	What do you mean by Operators. List and explain different datatypes with examples.	[05]	3	2
Q-2(b)	Write a program to check the given number is odd or even.	[05]	3	6
Q-3(a)	Explain Case Control Statement.	[05]	3	1
Q-3(b)	What is Error? Explain Error in Detail.	[05]	3	2
Q-3 (b)	What is lifter: Explain lifter in Detail.	feel		
	OR			
Q-3(a)	What is Flowchart. Explain in detail	[05]	3	2
Q-3 (b)	Write an Algorithm for check the given number is positive or not.	[05]	3	6
Q-4	Attempt anyone.	[05]		
(i)	Write C program convert Fahrenheit to Celsius		3	6
(ii)	Write C program for Reverse Number		3	6
	SECTION - II			
Q-1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]		
(i)	Difference between library function and User Define function.		1	1
(ii)	Can we change the size of an array at run time?		1	2
(iii)	Can we define a function with in a function?		1	1
(iv)	Can we change the size of an array at run time?		1	2
(v)	Define Function. List out Type of Function.		3	1
(vi)	Create user-Define function for addition of 3 numbers.		3	1
(vii)	Why 'C' is called middle level language?	[OF]	1	2
Q - 2 (a)	Compare between Structure and union	[05]	3	4

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Q-2.(b) What is pointer? Explain with example to print the address of variable using
                                                                                              [05]
            pointer.
            1. Write a program to take integer value input from user using scanf() function.
 Q-2(a)
                                                                                                            6
            2. Write a program to demonstrate use of gets() and puts() function.
            Short Note/Long Question/Example
 Q-2(b)
                                                                                              [05]
 Q-3(a)
            Write an output for this Program
                                                                                              [05]
                                                                                                     3
                                                                                                            6
            #include <stdio.h>
            int main()
            1
            char s = 'm';
            char t = 'z' - 'y';
                  printf("%d\n", s);
                  printf("%c\n", s);
                  printf("\%d\n",(s+1));
                  printf("%c\n",(s+1));
                  printf("%d\n", (s-1));
                  printf("%c\n", (s-1));
                  printf("%d\n", t);
                   return 0;
Q - 3 (b) What is String. Explain Function of String
                                                                                             [05]
                                                                                                            2
{\bf Q} - {\bf 3} (a) . Write a Program to Print Student is Excellent, Good, Pass and fail with condition
                                                                                                            6
           of above 50 marks, 40 marks, 30 marks and belove 20 marks using Switch case.
           Define recursion. Explain with example. List the advantages of recursion.
Q-3(b)
                                                                                             [05]
                                                                                                           2
Q-4
           Attempt any one.
                                                                                             [05]
           Write a C program to display given pattern
(i)
                                                                                                     3
                                                                                                           6
                                                 AB
                                                ABC
                                               ABCD
                                              ABCDE
(ii)
           Write a C program to display given pattern
                                                                                                           6
                                                 ВВ
                                                CCC
                                               DDDD
                                               EEEEE
                       : Course Outcome Number
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Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply	
4: Analyze	5: Evaluate	6: Create	4.723

BTL : Blooms Taxonomy Level