

## CT2 Set A

Programming For Problem Solving (SRM Institute of Science and Technology)



Scan to open on Studocu



Program: B.Tech

## SRM Institute of Science and Technology Faculty of Engineering and Technology CYCLE TEST – II

Academic Year: 2022-2023 (EVEN Semester)

Slot E , Batch 1 SET A OFFLINE

Year / Sem: I/ II Duration: 2 Periods Date: 09-05-2023

Max. Marks: 50 Course Code: 21CS101J

**Subject Title: Programming for Problem Solving** 

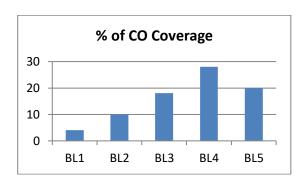
Reg.No								

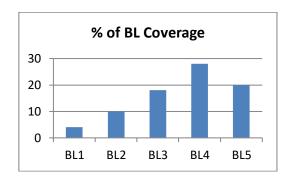
21CSS	21CSS101J - Programming for Problem Solving				Program Outcomes (POs)											
		Graduate Attributes														
COs	At the end of this course, learners will be able to:	1	2	3	4	5	6	7	8	9	10	11	12			
CO-1:	Solve problems through computer programming. Express the basic data types and variables in C	2	3	-	1	-	ı	1	ı	-	-	-	2			
CO-2:	To create programs using the concept of arrays.	2	3	-	-	-	-	-	-	-	-	-	2			
CO-3:	Create string processing applications with single and multi- dimensional arrays.	2	3	-	-	-	-	-	-	-	-	-	2			
CO-4:	Create user defined functions with required operations. To implement pointers in applications with dynamic memory requirements.	2	3	-	-	-	-	-	-	-	-	-	2			
CO-5:	Create programs using the python data types, loops, control statements for problem solving	2	3	-	-	-	-	-	-	-	-	-	2			

Q. No.	Part A Question (1 X 8 = 8 MARKS)	M	со	BL	РО
1	What will be the value of var for the following C statement?	1	3	1	1
	var =strcmp("Hello","World");				
	a) -1 b) 0 c) 1 d) strcmp has void return-type				
2.	Which pre-defined function returns a pointer to the last occurrence of a	1	3	1	1
	character in a string?				
3.	a) strchr(s, c); b) strrchr(s, c); c) strlchr(s, c); d) strfchr(s, c);  The function appends not more than n characters.	1	3	1	1
3.	a) strcat() b) strcon() c) strncat() d) memcat()	1	3	1	1
4.	Which of the following symbols is used to make single line comments in	1	4	1	1
	python?				
	a) # b) ' c) " d) " " "				
5.	What will be the output of the following statement if the user has entered 20	1	4	2	1
	as the value of x?				
	x=input("enter a number:")				
	print(10+x) a) 1010 b) 30 c) 20 d) 2010				
6.	A variable defined outside a function is referred to as	1	4	2	1
0.	a) local variable b) only variable c) global variable d) not defined	1		_	•
7.	When dealing with identifiers, Python is case sensitive or not?	1	5	3	1
	a) yes b) no c) machine dependent d) program dependent				
8.	How many times will Python execute the code inside the following while	1	5	3	1
	loop? You should answer the question without using the interpreter! Justify				
	your answers. $i = 0$				
	while $i < 0$ and $i > 2$ :				
	print "Hello"				
	i = i+1				
	a) 1 b) 2 c) 0 d) 4				
	Part B Question (3 X 4 = 12 MARKS)				
9	List any four string functions along with suitable example.	4	3	2	1
10	What is commenting python? Write its types with simple example.	4	4	2	1
11	What is the difference between a tuple and a list?	4	5	3	1,2

	Part C Question (3 X 10 = 30 MARKS)				
12a.	Write a C program to count total number of alphabets, digits or special	10	3	3	1,2
	characters in a string using loop. How to find total number of alphabets, digits				
	and special characters in a string in C programming.				
	or				
12b.	With the help of Call by Value and Call by reference function, Swap the	10	3	3	1,2
	values of the two variables x & y. Also state the difference between call by				
	value and call by reference.				
13 a.	Write the python program to read three integer inputs from the user and print	10	4	4	1,3
	the largest.				
	Or				
13b.	Write a python code to take a string input from the user. Reverse the first	10	4	4	1,3
	three characters and print the reversed string as an output. If the string does				
	not consist at least three characters, it should print "Insufficient".				
14a.	Explain the data types in python.	10	5	5	1.12
	Or				
14 b	Explain function and module with suitable example	10	5	5	1.12

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions





Approved by the Course Coordinator

Signature of the Question paper setter

## Name of the Student:

## **Evaluation Sheet Register No.:**

								8							
Part- A (1 x 8= 10 Marks)							Part B (3 x 4 = 12 marks)								
Q. No	СО	PO	Maximum Marks	Marks Obtained	Total	Q. No	СО	PO	Maximum Marks	Marks Obtained	Total				
1	CO3	PO1	1			14 a	CO5	PO1,12							
2	CO3	PO1	1			14 b	CO5	PO1,12							
3	CO3	PO1	1					II.			u .				
4	CO4	PO1	1												
5	CO4	PO1	1												
6	CO4	PO1	1												
7	CO5	PO1	1												
8	CO5	PO1	1												
	Pa	rt- B (4 x 5	= 20 Marks)	I											
19	CO3	PO1	5												
10	CO4	PO1	5					Conso	lidated Mark	s					
11	CO5	PO1,2	5			СО	Max. Marks	Mark Obtained	PO	Max. Marks	Mark Obtaine				
	Pai	t- C (2 x 1	0= 20 Marks)	•		CO3			PO1						
12.a.	CO3	PO1,2	10			CO4			PO2						
12.b.	CO3	PO1,2	10			CO5			PO3						
13.a.	CO4	PO1,3	10						PO12						
13.b.	CO4	PO1,3	10												
	1	1	1	1	1	1	1	1	1	1	1				

**Signature of Course Teacher** 

