

Pps ct 1 set 2 - Pyqs for CT

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



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COLLEGEOFENGINEERINGANDTECHNOLOGY, SRMISTDEPARTMENTOF COMPUTING TECHNOLOGY

CYCLETEST-I AcademicYear:2022-2023(ODDSemester)

Programoffered:B.Tech(AllBranches)
Max.Marks:25

Year/Sem:I/I Duration:50minutes

CourseCodeandTitle:21CSS101J:ProgrammingforProblemSolving

CourseLearningRationale(CLR):

CLR-1: Think and evolve with a logic to construct an algorithm and pseudocode that can be converted into a program.

CourseLearningOutcomes(CLO):

CLO-1: To solve problems through computer programming. Express the basic data types and variables in C

PartA(10*1=10Marks)

Sl.No	Question	СО	PO	BL	Marks	PICODE
1	Which one of the following has the least precedence?	1	2	2	1	2.5.2
	A. ++					
	B. && C. ()					
	D. ,					
	,					
	Answer.D					
2	Identify		2	2	1	2.5.2
	thecorrectorderofevaluationfortheexpressionD=5					
	0+12* 4/32% 4- 10					
	a. */%+-=					
	b. =*/%+-					
	c. /*%-+=					
	d. %/-+=*					
	Answer.A					

3	Identify which is not a valid C variable name?	1	1	1	1	2.5.2
	A. int number;					
	B. float rate;					
	C. int variable_count;					
	D. int\$main;					
	D. Intomain,					
	A D					
A	Answer.D					
4	The format specifier that is used to read or write a character	1	1	1	1	2.5.2
	is					
	A. %f					
	B. %d					
	C. %c					
	D. %s					
	7,00					
	Answer.C					
5		1	2	2	1	2.5.2
	What is the result of logical or relational expression in C?					
	a) True or False					
	b) 0 or 1					
	c) 0 if an expression is false and any positive number if an					
	expression is true					
	d) false if 0					
	,					
	Answer.B					
d'est		1	1	1	1	2.5.2
6Гh		1	1	1	1	2.5.2
	A. Unary					
	B. Relational					
	C. Assignment					
	D. Equal					
	Answer.B					
		1	2	2	1	2.5.2
7.	The size of() operator is a type of operator used to calculate	1	2	2	1	2.5.2
	the size of the data types					
	A. Unary					
	B. Binary					
	C. Relational					
	D. Logical					
	A marriam A					
	Answer.A	4	4		4	2.5.2
8.	Identify the invalid expression	1	1	2	1	2.5.2
	A. Result = $a++-b*2$;					
	B. Result = $++a * 5$;					
	C. Result = /4;					
	D. Result = 2, 4					
	Angream D					
	Answer. D					
	. 1, 2, 4 1 2 24.12 1	1	1	1	1	252
9.	is used to write the pseudo code with hierarchy.	1	1	1	1	2.5.2
	a. Colon					
	b. Braces					
	c. Parenthesis					
	d. Indentation					

	Answer. D					
10.	A binding is if it first occurs execution or can change during execution of the	1	1	2	1	2.5.2
	program. a. static, before					
	b. static, during c. dynamic, before					
	d. dynamic, during					
	Answer. D					

PartB(5*2=10Marks) Answer all questions

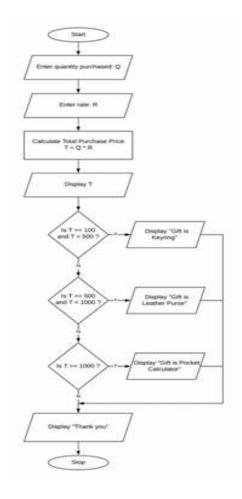
Sl.No	Question	CO	PO	BL	Marks	PI Code
11	Write a Pseudocode for finding sum and average of three numbers. Ans: Pseudocode SUM_AVG BEGIN READ A, B, and C CALCULATE sum=A+B+C CALCULATE average=SUM/3 PRINT sum and average END	1	2	2	2	2.5.2
12	Illustrate a C program to calculate simple interest. Ans: #include <stdio.h> main() { int p,n; float r,si; p=1000; n=3; r=8.5; si = p*n*r/100; printf(" Simple Interest = %f", si); }</stdio.h>	1	2	2	2	2.5.2
13	Distinguish between '=' and '==' operator with example. Ans: Where = is an assignment operator and == is a relational operator. Example: If i=5, it assigns the integer value 5 to the variable i. While comparing (i==5), it returns true since I is exactly equals to 5.		1	1	2	2.5.2
14	Where does global, static, and local, register variables, free memory and C Program instructions get stored? Ans: Global: Wherever the linker puts them. Typically the—BSS segment on many platforms. Static: Again, wherever the linker puts them. Often, they're intermixed with the globals. The only difference between global and static are whether the linker will resolve the symbols across compilation units.Local: Typically on the stack members in the ovarious structure.		2	1	2	2.5.2

allocated and never spills.Register: Nowadays, these are equivalent to —Local variables. They live on the stack unless they get register-allocated.					
Compute the size of the int, float, char and double variable by using a C program with suitable code. Ans: #include <stdio.h> intmain() { printf("Size of char: %ld byte\n", sizeof(char)); printf("Size of int: %ld bytes\n", sizeof(int)); printf("Size of float: %ld bytes\n", sizeof(float)); printf("Size of double: %ld bytes", sizeof(double)); return0; }</stdio.h>	2	3	2	2	2.5.2

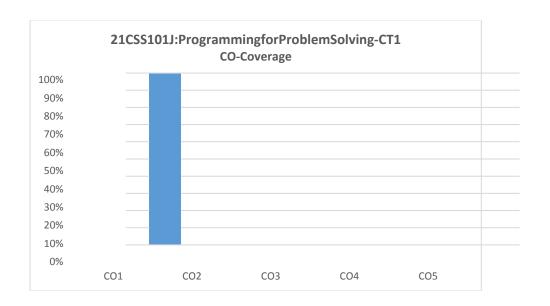
PartC(1*5=5Marks)

Sl.No	Question	CO	PO	BL	Marks	PI Code
16	Write a suitable C program to calculate Gross Salary of an employee. Given Basic Pay, HRA and DA. PF is 12% of the Basic Pay. Ans: #include <stdio.h></stdio.h>	1	2	2	5	2.5.2
	int main() { char name[30]; float basic, hra, da, pf, gross; printf("Enter name: "); gets(name); printf("Enter Basic Salary: "); scanf("%f",&basic); printf("Enter HRA: "); scanf("%f",&hra); printf("Enter D.A.: "); scanf("%f",&da);					
	gross=basic+da+hra+pf; printf("\nName: %s \nBASIC: %f \nHRA: %f \nDA: %f \nPF: %f \n***GROSS SALARY: %f ***",name,basic,hra,da,pf,gross); return 0; } Downloaded by Madhav Gupta (mgups2002@gmail.c	om)				

		output : Enter name: Mike Enter Basic Salary								
		Enter HRA: 9500								
		Enter D.A.: 9500								
		Name: Mike								
		BASIC: 23000.00								
		HRA: 9500.00000								
		DA: 9500.000000	1							
		PF: 2760.000000	A D.V. 44770 000000 ***							
		****GRUSS SALA	ARY: 44760.000000 ***							
		Draw the flowchar		2	2	5	2.5.2			
			d and the rate. Calculate							
			d display it along with the		;					
			s to the customers are given as	s under:						
		of Purchase (Rs.)	Gift	The						
1	100 and han 500	above but less	A key ring	1110						
		above but less	A leather purse							
	han 100		11 icamer parse							
	1000 and		A pocket calculator							
			with a 'Thank you' message.	ı						
		Ans:	-							



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



21CSS101J:ProgrammingforProblemSolvingCT1 BloomsLevel%

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