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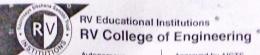
Academic year 2022-2023 (Odd Sem)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date	Jan 2023	Maximum Marks	60				
Course Code	22PLC15D	Duration	120 Min				
Sem	I	CIE - I	120 141111				
		LANGUAGE COURSE CC++ Programming)					

SL No.	Quiz Questions	M	BT	CO
W	Identify any two attributes and methods for the real world object: "CAR"	2	L3	CO
2/	main() { int i = 4; int x = 6; double z; z = x / i; printf("z=%.12lf\n", z); } Write the output of the above code segment.	2	L4	CO2
3	'volatile' type qualifier could be used to tell explicitly the compiler that	1	L1	CO
4/	Write the output of following code? #include <stdio.h> main() { int x=-1,y=-1; if(x==++y) printf("C V Raman"); else printf("Amartya Sen"); }</stdio.h>	2	L4	CO
5	Differentiate between C and C++ with any two differences.	2	L2	CO
6	Encapsulation is the mechanism that binds together and the it manipulates.	1	L1	CO:

SL No.	Test Questions	M	BT	CO
1/	Explain four main classifications of operators with examples.	10	12	CO3
2	Explain the need for array variables. Elaborate on declaration and access of single dimensional array and two dimensional array elements with examples	10		CO2
3.a	Explain any two Iteration statements with their syntax and example.	6	L2	CO2



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Academic year 2022-2023 (Odd Sem)

3.6	Identify the use of functions in C++ programming language and differentiate between call by value and call by reference ways of passing arguments.	4	L2	COI
A.	Explain the following conditional compilation directives. #if, #elif, #ifdef, #ifndef, #else	10	L2	COI
5.	Design a C++ program by creating a class for student to track marks secured by each student in six courses. i) Include member functions to accept data for each student and display data of each student. ii) Calculate average marks of each course and display	10	L3	CO2

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

Marks	Parti	culars	COI	CO2	CO3	CO4	LI	L2	L3	L4	L5	L6
Distribution	Test	Max Marks	10	36	14		2	40	10	8		

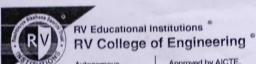
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Academic year 2022-2023 (Odd Sem)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date	Feb 2023	Maximum Marks	10+50								
Course Code	22PLC15D	Duration	120 Min								
Sem											
	Introduction to C++ Programming										

Sl. No.	QUIZ Questions – PART - A	M	BT	СО
1.	Write the differences between C++ class and C++ structure	02	L2	CO2
J 2.	Which other keywords are also used to declare the class other than class?	01	L1	CO2
3.	What is the output of the following program? #include <iostream> using namespace std; class Test { int x; }; int main() { Test t; cout << t.x; return 0; }</iostream>	02	L3	CO2
A.	Write any 2 points on how constructors are different from other member functions of the class?	02	L2	CO1
15.	What is the significance of Friend Function in C++?	01	L1	CO1
6.	<pre>What is the output of the following program? #include <iostream> using namespace std; class Sample { static int A; public: Sample() { A = 10; } void print() { cout << A << endl; } };</iostream></pre>	02	L3	CO2



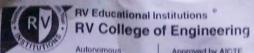
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Academic year 2022-2023 (Odd Sem)

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	Sample S; S.print();			
	return 0;			
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1 a.	Test Questions - PART - B Describe the structure of class declaration and class definition through	10	L2	CO3
	example program.	06	L2	CO2
/ 2a.	Explain the relation between Structures, Unions and Classes.	04	L2	CO2
2 5	Bring out the advantages of using friend functions with relevant examples. Differentiate between inline functions and inline functions within a class	10	L2	CO2
4a.	through examples. Briefly explain the passing and returning objects in C++ functions with	06	L2	CO2
1	examples.	04	L2	CO2
4b.	Differentiate between constructors and destructors with examples. Design a C++ program using friend functions for comparing attributes of two different classes to check whether attributes of both classes are equal.	10	L3	CO2

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

						CO-Cou	4	L2	L3	Ľ4	L5	L6
Marks Distribution	Parti	culars	COI	CO2	CO3	CO4	Ll	LZ	LJ		200	
	Test	Max Marks		40	. 10	-		40	10	-	-	-
	Quiz	Max Marks	03	07	-	*****	02	04	04	-	-	-



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Academic year 2022-2023 (Odd Sem)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date	Mar 2023	Maximum Marks	10+50							
Course Code	22PLC15D	Duration	120 Min							
Sem	1	QUIZ-III& Test-III								
*	Introduction to C++ Programming									

SI. No.	QUIZ Questions – PART - A	M	ВТ	СО
1.	Define polymorphism along with its syntax representation.	02	L1	CO3
2.	Write the syntax for publicly derived class B from class A.	02	L2	CO3
3.	What is the importance of inheritance in C++.	02	L1	CO3
4.	Write the syntax for creating a virtual function to implement polymorphism	02	L1	CO3
5,	Can the private functions in the base class be inherited by the derived class? Justify the answer.	02	L2	CO3
	Test Ouestions - PART - B	1		
1	Discuss the advantages of inheritance in Object Oriented Programming and explain the different types of inheritance with pictorial representations and	10	L2	CO3
2a.	examples. Explain about the protected access mode in the derived class.	06	L2	CO3
2b	Discuss in brief about compile time and run time polymorphism.	04	L2	CO3
3	Design and implement a C++ program to create an abstract class - SHAPE to represent any shape in general. The class should have two pure virtual functions to read dimensions and to compute the area. Create three derived classes - CIRCLE, RECTANGLE, and SQUARE by inheriting the features classes - CIRCLE, RECTANGLE, and SQUARE by inheriting the features.	10	L3	CO3
40.	of class SHAPE. Implement the functions to read and compute the area. Explain the concept of function overloading with its syntax and examples.	06	L2	CO3
4b	Examine the importance of default arguments in C++ programming.	04	L2	CO3
5.	Explain the following concepts with examples.	10	L2	CO3
	a. Virtual Functions-		1	
	b.Abstract Classes. BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks	-		
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			BI-BI	oms 1 az	1			10	L3	14	16	16
	Parti	culars	COI	CO2	CO3	CO4	LI	L2	Lis	L4	F2	L6
Marks Distribution	Test	Max Marks	-	-	50	-	-	40	10	-11	-	
	Quiz	Max Marks				-	6	4				