

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date Jan 2023 Maximum Marks **60**
 Course Code 22PLC15D Duration 120 Min
 Sem CIE-I
 PROGRAMMING LANGUAGE COURSE
 (Introduction to C++ Programming)

SL No. Quiz Questions M BT CO
 Identify two attributes and methods for the real world object: **CAR" 2 L3 CO1
 main)

```
int i=4;
int x=6;
double z;
z = x/i;
printf("z=%.12lf\n",
```

2 L4 CO2

Write the output of the above code segment.

volatile' type qualifier could be used to tell explicitly the compiler that

III CO2

Write the output of following code?

```
#include <stdio.h>
main()
```

```
int x=-1,y=-1;
if(x++>y)
    printf("V Raman");
else
    printf("Amar Singh")
```

2 L4 CO2

Differentiate between C and C++ with any two differences.

6 Encapsulation is the mechanism that binds together 2 and the
 it manipulates.

2 L2 CO3
LI CO3

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

Academic year 2022-2023 (Odd Sem)

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 CO1

Explain the following conditional compilation directives. 10 L2 CO1

A) #if, #ifdef, #ifndef, #else

Design a C++ program by creating a class for student to track marks secured by each student in six courses.

Include member functions to accept data for each student and display data of each student 10 L3 CO2

ii) Calculate average marks of each course and display

		BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks									
		Co	Co2	CO3	CO4	LI	L3	L4	L5		
Marks	Particulars	40	36	14	2	40	10				
Distribution	Test	Max									
	Marks										

Academic year 2022-2023 (Odd Sem)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Date Feb 2023 Maximum Marks 10+50
Course Code 22PLC151 Duration 120 Min
Sem Introduction to C++ Programming QUIZ-II & Test-II

Sl. No.	QUIZ Questions - PART A	M	BT	CO
1.	Write the differences between C++ class and C++ structure	02	L2	CO2
2.	Which other keywords are also used to declare the class other than class?	01	LI	CO2
3.	What is the output of the following program? #include<iostream> using namespace std; class Test int> int main() Test t; cout << t.x; return 0;	02	L3	CO2
4.	Write any 2 points on how constructors are different from other member functions of the class?	02	L2	CO1
5.	What is the significance of Friend Function in C++?		LI	CO1
6.	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; } };	02	L3	CO2

```
Sample S;  
S.print());  
  
return 0;
```

Test Questions - PART - B					
Aa.	Describe the structure of class declaration and class definition through example program.	10	L2	C03	
2a.	Explain the relationship between Structures, Unions and Classes.	06	L2	C02	
25	Bring out the advantages of using friend functions with relevant examples.	04	L2	C02	
	Differentiate between inline functions and inline functions within a class through examples.	10	L2	C02	
4a.	Briefly explain the passing and returning objects in C++ functions with examples.	06	L2	C02	
Ab.	Differentiate between constructors and destructors with examples.	04	L2	C02	
	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	C02	

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks									
Particulars		CO1	CO2	CO3	CO4	LI	L2	L3	L4
Marks	Test	Max	40	10			40	10	
Distribution		Marks							
	Quiz	Max	03	07		02	04	04	
		Marks			*	*****			

