Regd. No.	3 2				



Regulation: R22 Code: 22DCS203/2

II Diploma I Semester Supplementary Examinations – April, 2024

OBJECT ORIENTED PROGRAMMING THROUGH C++

Time: 3 Hrs (CSE) Max. Marks:60M

		SI	ECTION	N - A				
Answ	er all Ten questions				10×1N	/ 1=10	0M	
1.	What is the name of	operator?				[]	
	a) sizeof	b) or		c) and	d) modulus			
2.	Pick out the compound	l assignment state	ement.			[]	
	a) $a = a - 5$	b) a = a / b		c) a -= 5	d) $a = a + 5$			
3.	Where does the execut	ere does the execution of the program starts?						
	a) user-defined function b) main function c) void function d) else function							
4.	What is the index num	What is the index number of the last element of an array with 9 elements?						
	a) 9	b) 8		c) 0	d) Programmer-defined			
5.	The explicit keyword is an optional decoration for the constructors that take							
	exactlyargument					[]	
	a) No argument	b) Two		c) Three	d) One			
6.	Which is the correct example of a binary operator?					[]	
	a) ++		b) —					
	c) Dereferencing opera	tor(*)	d) +					
7.	Which concept allows you to reuse the written code?]	
	a) Encapsulation	b) Abstraction	c) Inhe	ritance	d) Polymorphism			
8.	Which of the following is used for implementing the late binding?]	
	a) Operator Functions	b)Virtual Functions						
	c) Constant Functions		d)All o	f above				
9.	Which of the following	g best defines the	syntax f	or template fund	etion?	[]	
	a) template return type	Function Name	(Paramet	ers)				
	b) template return type	Function Name	(Paramet	ers)				
	c) Both A and B							
	d) None of the above							
10	. How many types of ter	nplates are there	in c++?			[]	
	a) 1	b) 2		c)3	d) 4			

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SECTION – B

Answer All Four questions

 $4\times5M=20M$

11. What are the different types of operators in C++? Explain with examples.

(OR)

- 12. Explain the structure of C++ Program with example.
- 13. Distinguish between call by value and call by address with an example.

(OR)

- 14. What is function overloading? What are the principles of function overloading?
- 15. Explain constructor overloading with example.

(OR)

- 16. Give the rules for operator overloading. Discuss an example.
- 17. What is virtual function? What are the rules for virtual functions?

(OR)

18. Differentiate class template and function template

SECTION - C

Answer All Three questions

 $3\times10M=30M$

19. What is OOP? Discuss about the OOPs concepts.

(OR

- 20. Define inline function? Write a program for finding the area of a triangle using inline functions.
- 21. Write a C++ program to overload binary '+' operator which will add two complex numbers of the form (a+ib).

(OR)

- 22. Write a C++ program to show the functioning of virtual functions
- 23. Define inheritance? Explain the different types of inheritances used in C++

(OR)

24. Define template? What is the need of template? How to declare a template class?