TED (15/19	9) - 3134
(Revision -	- 2015/19)

N22 - 08858

Reg.No		
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – NOVEMBER – 2022

OBJECT ORIENTED PROGRAMMING THROUGH C++

(Maximum Marks : 100)

PART – A

(Maximum Marks : 10)

Marks

- I. Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. List two derived data types in C++.
 - 2. Write the syntax of function prototype.
 - 3. Define encapsulation.
 - 4. Name two operators that cannot be overloaded.
 - 5. Write the purpose of exception handling mechanism.

(5x2=10)

PART-B

(Maximum Marks: 30)

- **II.** Answer any **five** of the following questions. Each question carries 6 marks.
 - 1. Compare array and structure.
 - 2. Explain any three features of Object Oriented Programming.
 - 3. Write any program that illustrate the creation of a class and object.
 - 4. Write notes on constructors in C + +.
 - 5. Differentiate between private, protected and public access specifiers.
 - 6. Describe about composition.
 - 7. Explain input output operators.

(5x6=30)

PART – C

(Maximum Marks : 60) (Answer **one full** question from each unit. Each full question carries 15 marks)

UNIT – I

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III.	(a) Explain about different operators in C++.	(9)			
	(b) Explain any two control structures in C++.	(6)			
	OR				
IV.	(a) Develop a program to store and display the name, roll no and mark of 'N' students in a class.	(9)			
	(b) Describe about memory management operators.	(6)			
UNIT – II					
V.	(a) Explain inline function with an example.	(7)			
	(b) Explain different parameter passing methods.	(8)			
	OR				
VI.	(a) Explain function overloading with an example.	(9)			
	(b) Explain the limitations of operator overloading.	(6)			
	UNIT –III				
VII.	(a) Explain single level and multi-level Inheritance with examples.	(15)			
	OR				
VIII	I. (a) Write a program for any unary operator overloading.	(9)			
	(b) Explain Friend Function with an example.	(6)			
UNIT – IV					
IX.	(a) Explain exception handling in C + +.	(10)			
	(b) Write a short note on type cast operators.	(5)			
	OR	` '			
X.	(a) Write program to display the largest among two numbers using function templates.	(9)			
	(b) Explain the rules for using Virtual function.	(6)			
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