GALGOTIAS UNIVERSITY

Name. _____	**Printed Pages:01**
Student Admn. No.: _____	

<table>
<tr><td colspan="2" align="center">SCSE
Semester End Examination - Even Semester (Non - Graduating Batches) – June 2024
[Programme: B.Tech(CSE)   ] [Semester: II   ) [Batch:]</td></tr>
<tr><td>Course Title: Object Oriented Programming (For Back Paper only)
Course Code: E2UC201C</td><td>Max Marks: 100
Time: 3 Hrs.</td></tr>
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Instructions:	1. *All questions are compulsory.*
	2. *Assume missing data suitably, if any.*

		K Level	COs	Marks
1.	Define Object & Class in Object Oriented Programming paradigm with an example?	K1	DL2	2
2.	Explain 4 pillars of Object Oriented Programming with example?	K2	DL2	4
3.	Explain function prototyping with example.	K2	DL3	6
4.	Write a C++ program demonstrating use of the pure virtual function with the use of base and derived classes.	K3	DL3	9
5.	Articulate how overriding is different from the overloading demonstrate also with help of C++ code.	K3	DL3	9
6.	Compare the role of seekg(), seekp(), tellg(), tellp() & write syntax of each in C++.	K5	DL2	10
7.	Investigate polymorphism and Explain Virtual functions with example. Differentiate static & dynamic binding?	K4	DL3	12
8.	Discuss the role of access specifiers in inheritance and show their visibility when they are inherited as public, private and protected.	K5	DL3	15
9.	What is Try, Catch and Throw? Demonstrate the error 'divide-by-zero' with example of C++ code.	K5	DL3	15
10	What are different type of inheritance explain with example; Write C++ code to define a class called Animal with a method called sound() and Create subclasses Dog, Cat, and Cow, each overriding the sound() method to produce different sounds.	K6	DL3	18