

ANURAG Engineering College

(An Autonomous Institution)

II B.Tech I Semester Supplementary Examinations, June/July – 2024

**OBJECT ORIENTED PROGRAMMING
(COMPUTER SCIENCE AND ENGINEERING)**

Time: 3 Hours

Max. Marks: 75

Section – A (Short Answer type questions)**(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. What is Encapsulation?	CO1	L1	2M
2. Can we use continue in switch block? Give a reason for your answer.	CO1	L2	3M
3. Define friend function in c++.	CO2	L1	2M
4. Give an example for an inline function.	CO2	L1	3M
5. What are the advantages of Inheritance?	CO3	L1	2M
6. Why this pointer is needed in c++?	CO3	L1	3M
7. What is a Template in C++?	CO4	L1	2M
8. How to rethrow an exception in C++? Explain.	CO4	L2	3M
9. What are the streams available in C++?	CO5	L1	2M
10. Differentiate between sequential and random access to files.	CO5	L2	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain the Iterative statements in C++ with suitable examples.	CO1	L2	10M
OR			
B) Illustrate the use of (i) typecasting and (ii) namespaces in C++ with necessary examples.	CO1	L2	10M
12. A) Define a function. Explain various parameter passing approaches in c++ with examples.	CO2	L2	10M
OR			
B) Explain the concept of Constructors, destructors concept with suitable examples.	CO2	L2	10M
13. A) Classify the Inheritance types. How to achieve Multi Level Inheritance in C++? Explain.	CO3	L3	10M
OR			
B) Implement Virtual and Pure virtual functions with suitable examples.	CO3	L3	10M
14. A) What is a user defined exception. Write down the scenario where we require user defined exceptions	CO4	L3	10M
OR			
B) Write a C++ program using function template to find the product of two integer or floating-point type of data.	CO4	L2	10M
15. A) Explain the role of seekg(),seekp(),tellg(),tellp() function in the process of random access in a file	CO5	L2	10M
OR			
B) Explain in detail about formatted and unformatted I/O with examples.	CO5	L2	10M