

**ANURAG Engineering College**

(An Autonomous Institution)

II B.Tech I Semester Supplementary Examinations, Jan/Feb – 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. List the applications of OOP.	CO1	L2	2M
2. What is variable address in C++?	CO1	L1	3M
3. What are objects? How are they created?	CO2	L1	2M
4. What is meant by inline functions?	CO2	L1	3M
5. What is a pointer in C++?	CO3	L1	2M
6. Give a note on this pointer.	CO3	L1	3M
7. What is function template and class template in C++?	CO4	L1	2M
8. Write a short note on overloading of template functions.	CO4	L1	3M
9. Define stream.	CO5	L1	2M
10. Give a note on File management functions	CO5	L1	3M

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

11. A) Compare and contrast the Procedural versus Object Oriented Programming.	CO1	L3	10M
<b>OR</b>			
B) i) List and explain the various operators in C++. ii) Explain the various Principles of the Object-Oriented Programming.	CO1	L2	5M 5M
12. A) Discuss the friend functions, friend classes, operator overloading.	CO2	L2	10M
<b>OR</b>			
B) Explain the concept of Call by Reference and Return by Reference.	CO2	L3	10M
13. A) List and explain the types of inheritance	CO3	L3	10M
<b>OR</b>			
B) i) Describe the virtual base class. ii) Difference between single, multiple and multilevel inheritance.	CO3	L2	5M 5M
14. A) i) Discuss the rethrowing of an exception. ii) Write a function template for finding the minimum value contained in an array.	CO4	L3 L2	5M 5M
<b>OR</b>			
B) Illustrate the exception handling mechanisms in detail.	CO4	L3	10M
15. A) i) Explain about input and output streams ii) Discuss about get () and put () functions of stream class	CO5	L3	5M 5M
<b>OR</b>			
B) Write a short notes on the following: i) C++ File stream classes.                      ii) C++ stream classes	CO5	L2	10M

