



ACE
Engineering College
(with a Difference in Excellence)

An AUTONOMOUS Institution

Question Paper Code:

CS305PC

ACE-R20

Semester Supplementary Examination
II B. Tech- I Semester- SEPTEMBER-2022
OBJECT ORIENTED PROGRAMMING USING C++
(Common to CSE & IT)

Time: 3 Hours

Max. Marks: 70

H. T. No																			
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Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1. a)	Explain the concepts of Object Oriented Programming ?	7
1.b)	Discuss various Datatypes and expressions supported by C++	7
2. a)	What is iterative / loop statements, explain ?	7
2. b)	Write a Program to sort the elements of an Array of Integers	7
3. a)	Write about Constructors?	6
3. b)	Write a C++ program to find the factorial of a number using constructor.	8
4. a)	What is inheritance? Present the advantages and disadvantages of inheritance.	7
4. b)	Discuss in detail about virtual destructors	7
5. a)	Discuss how dynamic memory allocation is done in C++ programming	7
5.b)	Describe the mechanism of creating virtual functions in C++ with an example	7
6. a)	Write a C++ program to overload unary operator in complex numbers by using friend function.	7
6.b)	List and explain any four file mode parameters	7
7. a)	Explain the file operation functions in C++ to manipulate the position of file pointers in a random access file.	7
7.b)	Write a program to copy contents of ABC.txt to XYZ.txt	7
8. a)	Define exception handling. Explain the use of try, catch and throw for exception handling in C++.	7
8.b)	Write a C++ program to illustrate catching all exceptions.	7