

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Winter Examination – 2022 Course: B. Tech. Branch :Computer Engineering Semester :III Subject Code & Name: BTCOC305(A) Object Oriented Programming in C++ Max Marks: 60 Date: Duration: 3 Hr.			
Instructions to the Students: 1. All the questions are compulsory. 2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question. 3. Use of non-programmable scientific calculators is allowed. 4. Assume suitable data wherever necessary and mention it clearly.			
		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		12
A)	State the need of object oriented programming and any two characteristics of C++.	Remember	6
B)	What is constructor? Explain Parameterized constructor.	Understanding	6
C)	Explain objects as function arguments in C++ with suitable example.	Apply	6
Q.2	Solve Any Two of the following.		12
A)	Write a C++ program for Binary operator overloading for addition of two complex numbers.	Apply	6
B)	Explain data conversion for primitive data type to user-defined type with C++ program.	Understanding	6
C)	Explain different types of Inheritance in C++.	Remember	6
Q. 3	Solve Any Two of the following.		12
A)	What are Virtual functions? How it is differ from simple functions?	Analysis	6
B)	Illustrate this pointer with the help of C++ program.	Apply	6
C)	What is friend function? State its uses.	Remember	6
Q.4	Solve Any Two of the following.		12
A)	Explain Classes for I/O and File stream operations.	Remember	6
B)	What are manipulators in C++?	Understanding	6
C)	Write a C++ program to write contents in a file.	Apply	6
Q. 5	Solve Any Two of the following.		12
A)	What is exception? State its need of Exception handling.	Remember	6
B)	Explain function template overloading with C++ program.	Apply	6
C)	Explain sequence type container in C++.	Understanding	6
*** End ***			