

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Summer Examination – 2024

Course: B. Tech. Branch : Computer and Allied Semester :III

Subject Code & Name: BTCOC305A Object Oriented Programming in C++

Max Marks: 60

Date: 09/07/2024

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) Describe characteristic of object oriented programming	CO1	6
B) Explain constructors in object-oriented programming using suitable example	CO1	6
C) Differentiate between OOP and procedural programming	CO1	6
Q.2 Solve Any Two of the following.		12
A) Differentiate between base class and derived class	CO2	6
B) Define multiple inheritance and its advantages.	CO2	6
C) Define inheritance and explain any two types with suitable example	CO2	6
Q. 3 Solve Any Two of the following.		12
A) Define abstract classes and their purpose in object-oriented programming.	CO3	6
B) Define 'this' operator.explain its syntax with suitable example	CO3	6
C) Describe the concept of Polymorphism with suitable example	CO3	6
Q.4 Solve Any Two of the following.		12
A) Describe stream input and output with suitable example	CO4	6
B) Write short note on Stream manipulators	CO4	6
C) Explain what is fstream, ifstream and ofstream with help of example	CO4	6
Q. 5 Solve Any Two of the following.		12
A) Describe functional template	CO5	6
B) Explain STL Containers	CO5	6
C) Write short note on Exceptional handling	CO5	6

***** End *****