

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**

Mid Semester Examination – Sept./Oct. 2019

Course: B. Tech in Information Technology

Sem: III

Subject Name: Object Oriented Paradigm with C++

Subject Code: BTTC303

Max Marks: 20

Date:- 05/10/2019

Duration:- 1 Hr.

**Instructions to the Students:**

1. Attempt all questions
2. Write programs wherever applicable

		(Level/CO)	Marks
Q.1	Write answers for the following:		6
	1. Define algorithm. Write any two characteristics of an algorithm.	CO3	
	2. State and explain whether the following statement is TRUE or FALSE? In procedure-oriented programming, all data are shared by all functions.	CO3	
	3. What is the purpose of a reference variable ?	CO3	
	4. Choose correct answer: A relational operator A. assigns one operand to another. B. yields a Boolean result. C. compares two operands. D. logically combines two operands.	CO1	
	5. Choose correct answer: A normal C++ operator that acts in special ways on newly defined data types is said to be A. glorified. B. encapsulated. C. classified. D. overloaded.	CO1	
	6. Choose correct answer: Library files can be included using A. <> B. <> or "" C. "" D. #	CO1	
2.2	Solve Any Two of the following.		3 X =
(A)	Design and write a program in C++ using while loop that displays the numbers from 100 to 110.	CO1	
(B)	What is the purpose of constructor? Demonstrate types of constructor with a program.	CO3	
(C)	What is operator overloading? Demonstrate by writing a program.	CO5	
Q. 3	Solve Any One of the following.		8
(A)	Write a program in C++ to define a class for employee details like: EmpID, Name, Number of working days. Write functions to read, calculate salary of the month and display. The program should be able to work for 50 employees.	CO1, CO3	
(B)	Create a class string that can work as a user-defined string type. Include constructors to create an uninitialized string, initialize an object with a string at the time of creation, concatenate two strings and displays desired string object.  *** End ***	CO1, CO3	