

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,  
LONERE – RAIGAD - 402 103**

**Supplementary Examination Winter Dec-2019**

*Sf*

**Branch: B. Tech. In Computer Engineering**  
**Subject: Object Oriented Programming in Java (BTCOE404A)**  
**Date: 02/ 11 /2019**

**Sem.:- IV**  
**Marks: 60**  
**Time: 3 Hours.**

**Instructions to the Students**

1. Each question carries 12 marks.
2. Attempt **any five** questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly .

Q. No		(Marks)
Q.1.A]	How Java differs from C and C++?	(6M)
Q.1.B]	Explain the general structure of the Java Program.	(6M)
Q.2.A]	What is readLine( ). Write a simple Java Program which reads an integer, character and float value from the keyboard.	(6M)
Q.2.B]	What is a class? What is an object? How does class is declared? How instance of a class is generated?	(6M)
Q.3.A]	What are switch statements? Write a simple Java Program which performs Arithmetic Operations using switch statement.	(6M)
Q.3.B]	Explain: a) Conditional operators. b) Logical Operators. c) Bitwise Operators.	(6M)
Q.4.A]	How arrays are declared and created in computer memory? Write a simple Java program performing [2 X 2] matrix addition.	(6M)
Q.4.B]	Write a Java Program to perform [3 X 3] Matrix Multiplication.	(6M)
Q.5.A]	What are constructors? What are methods? How methods are declared in Java.	(6M)
Q.5.B]	Explain the Get and Set Methods using a Java Program.	(6M)
Q.6.A]	Explain the different types of inheritance implemented in Java.	(6M)
Q.6.B]	Write a short note on: a) Polymorphism. b) Strings. c) Packages.	(6M)

\*\*\*\*\*END OF QUESTION PAPER\*\*\*\*\*