# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## Supplementary Summer Examination – 2024

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| Course: B. Tech | Branch : Electronics and Computer Engineering/ Electronics & Computer Science Engineering |
| Semester :V | Subject Code & Name: Programming in JAVA (BTECOE504C) |

**Max Marks: 60**    **Date:08/07/2024**    **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.Assume suitable data wherever necessary and mention it clearly.*

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| Q. 1 | | Solve Any Two of the following. | **12** |
| | A) | Difference Between C, C++, and Java? | **6** |
| | B) | State and Explain scope of variable with an Example | **6** |
| | C) | Explain any Two Operators in Java ? Explain Precedence and Associativity Operators in Java? | **6** |
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| Q.2 | | Solve Any Two of the following. | **12** |
| | A) | Explain method of overloading using JAVA | **6** |
| | B) | What is an array? How do you declare an initialize an array in Java?What are disadvantage of Array? | **6** |
| | C) | What is garbage collection in Java and what are its benefits? .List out different types of garbage collectors in Java? | **6** |
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| Q. 3 | | Solve Any Two of the following. | **12** |
| | A) | White is difference between inheritance and interface in java. | **6** |
| | B) | Explain in detail implement and extend interface in java | **6** |
| | C) | How to create and access a package in Java? | **6** |
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| Q.4 | | Solve Any Two of the following. | **12** |
| | A) | Define applet. Explain applet life cycle with suitable diagram. | **6** |
| | B) | Explain any 4 keywords used for exception handling in Java. | **6** |
| | C) | What is Multi threading in Java ? How to create a Thread by Extending Thread class. | **6** |
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| Q. 5 | | Solve Any Two of the following. | **12** |
| | A) | What is event handling in AWT? Explain the three main components of event handling? | **6** |

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| B) | What Is a JDBC Driver in Java? Explain its Types ? | **6** |
| C) | What is the connection interface and Statement interface in JDBC? | **6** |

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