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|  | **ABES Engineering College, Ghaziabad**  **Department of Computer Science and Engineering** |  |

**Session: 2023-24 Semester: 4th Section: A, B, C, D**

**Course Code: BCS 403 Course Name: Object Oriented Programming with Java**

**Assignment 3**

**Date of Assignment: 29.05.2024 Date of submission: 03.06.2024**

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| **S.No.** | **Question** | **KL, CO** |
| 1 | What is functional interface? Explain using an example java program. | K2, CO3 |
| 2 | (i)Explain lambda expression and it types using suitable example.  (ii) Make a program to print factorial of a number by using Lambda Block. | K2, CO3 |
| 3 | Use stream API concept to write a java program that outputs sum of integer in an array list. | K2, CO3 |
| 4. | Explain the following methods in java.  a) Default method  b) Static method  c) forEach() method  d) Importance of Type annotations | K2, CO3 |
| 5. | (i) Discuss reduction operation in Stream API. Use java code to demonstrate the concept.  (ii) Write short note on try-with-resources. | K2, CO3 |