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

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

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

**Assignment 5**

**Date of Assignment: 09/07/2024 Date of submission: 12/07/24**

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| **S. No.** | **Question** | **KL, CO** |
| 1. | What is Dependency Injection and Write some advantages of using Dependency Injection. | K2, CO5 |
| 2. | Describe the Spring IoC container. What are its main responsibilities? | K2, CO5 |
| 3. | Compare singleton and prototype scopes in Spring in terms of lifecycle and use cases. | K2, CO5 |
| 4. | Write a code for simple Spring application using annotations/xml/java to configure beans and demonstrate dependency injection. | K3, CO5 |
| 5. | Write all the steps to create a spring boot application | K2, CO5 |