

F.Y. M.C.A Sem. I

Date:- 3/01/2025

(2-Years course)

Time: 3 Hours

Total Marks: 80

N.B. :1) Question No.1 is compulsory.

2) Attempt any THREE from the remaining questions.

3) Figures to the right indicate full marks.

- Q1. (a) Explain Custom tags in JSP. [5]
(b) What is POJO Programming model explain with suitable example? [5]
(c) Explain Wild Cards and its types. [5]
(d) Explain AspectOriented Programming with Spring. [5]
- Q2. (a) What is Collections? Explain any two interfaces with its all operations. [10]
(b) What is directives? Explain different types of directives in JSP. [10]
- Q3. (a) Explain Data Access operations with JdbcTemplate Class. [10]
(b) Explain Dependency Injection with Spring via Constructor Injection with suitable example. [10]
- Q4. (a) Define PointCut Designators by annotation with example. [10]
(b) Explain JSP architecture with suitable diagram. [10]
- Q5. (a) Explain Spring Boot RESTful Webservice with example. [10]
(b) Explain implicit objects in JSP [10]
- Q6. (a) What is Lambda Expression? Explain syntax and use of Lambda expressions with a suitable program. [10]
(b) Explain Spring Framework with suitable diagram. [10]
