

Unit I

1. Types of drivers (prepare different types available in ppt)
2. JDBC process to connect to a database (procedure and one example)
 - a. Learn MSAccess program
 - b. Learn Relational database (MySQL Program)
3. Programs on three types of statements (learn three programs)
 - a. Statement
 - b. PreparedStatement
 - c. CallableStatement
4. ResultSet and its methods

Unit II

1. LifeCycle of Servlet (either GenericServlet or HttpServlet)
2. Difference between CGI and Servlet
3. Servlet lifecycle methods
4. Servlet Programs
 - a. Reading data from HTML file into servlet and printing
 - b. Reading data from HTML file into servlet, create cookies
 - c. Reading data from HTML file into servlet, create Sessions
 - d. Use of RequestDispatcher Interface to redirect from one servlet to another servlet
5. What is Deployment descriptor (web.xml file)
6. We have explained Servlet to JDBC (but it is not in our syllabus- So, for the exam no need to prepare)

Unit III (Prepare from PPT)

1. Features of Spring Boot
2. Advantages of Spring Boot
3. Monolithic service
4. Microservices
5. 12 Factor App (12 components you need to read and write)
6. How to use Spring Initializer
7. Build tools
 - a. Read about Maven and Gradle
8. @SpringBootApplication Annotation (Read the three sub annotations here)

UNIT IV (prepare from PPT and word document)

1. Java Based annotations
 - @Override
 - @Deprecated
 - @SuppressWarnings
2. Spring Annotations
 - a. @Bean

- b. @Autowired
 - c. @ComponentScan
 - d. @Lazy
 - e. @Primary
 - f. @Qualifier
3. Discuss about stereotype annotations
 4. @SpringBootApplication Annotation (Read the three sub annotations here) (You have studied already in third unit 8th question)
 5. Program to connect to Inmemory database from JDBCTemplate
 6. Program to connect to Inmemory database from Spring Data JPA
 7. Program to connect to relational database from Spring Data JPA
 8. Method available in Spring Data JPA