

SYBSC SEMESTER IV
ADVANCED JAVA

UNIT 1

1. Difference between Statement and Prepared Statement Interface in JDBC.
2. Difference between Statement and Callable Statement.
3. Design a swing program for generating a login form.
4. Design a Radio button in swing for selecting one value from male and female?
5. Explain Panes in Swings? Why they are required?
6. Methods used for navigation through database records using a ResultSet object.
7. Why MVC is the important feature of SWING over AWT.
8. Write JDBC steps for connecting a java program to a database.
9. Explain Swing components.(from syllabus)
10. Design a Simple Calculator using Swing.
11. Explain JDBC Architecture in detail.
12. Explain Forward only ResultSet with example.
13. WAP JDBC program to insert records in Book table using prepared Statement.
Book(id, name, price)
14. Advantages of Swing over AWT.
15. Explain drivers in JDBC.
16. Explain ResultSet methods.
17. Explain different fields of resultset.
18. Programs on Swing and JDBC .

UNIT 2

1. Explain the functions of web container
2. WAP to demonstrate Life Cycle of a servlet.
3. Write a program to demonstrate servletconfig interface.
4. Differentiate between servlet and JSP.
5. Write a servlet program to manage session using HttpSession.
6. Explain any 5 implicit JSP objects.
7. What is the structure of web.xml.
8. Write a program in JSP using jsp: forward action tag with parameter to print date.
9. Develop servlet application of basic calculator.
10. Explain JSP Actions? How they are different from directives?
11. Explain Directives in JSP.
12. What is Deployment descriptor in servlet? Explain its structure.
13. WAP a JSP program to manage session.
14. Write a servlet code snippet to show the use of request dispatcher.
15. Write a servlet program to print your result in tabular format.
16. Explain JSP Life cycle.
17. Explain working of servlet with directory structure.

UNIT 3 STRUTS2 FRAMEWORK

1. MVC architecture in detail.
2. main components of a Struts 2 framework.
3. features of Struts2
4. JavaBeans properties
5. Compare JSON with XML.
6. Differentiate between struts model 1 and model 2.
7. data types in JSON?
8. struts.xml. Configuration file.
9. Result Types in Struts2.
10. JavaBean properties with an example.
11. program to depict MVC using struts2.
12. Struts 2 program to greet user with his name.
13. encode JSON object in java.
14. interceptors in Struts2?
15. execution flow with respect to interceptor?
16. Struts2 Architecture.
17. use of validation annotations in Struts 2.
18. simple JavaBean class named Person with properties for name, age, and email. Include the appropriate getter and setter methods.
19. Struts2 ValueStack.
20. Struts2 Action in detail.