

SANKALCHAND PATEL UNIVERSITY

B.Tech – SEMESTER (5) – EXAMINATION – WINTER 2018

Subject Code: 1ET1030501

Date:19/10/ 2018

Subject Name: Advanced Java Programming

Time: 3 Hrs.**Total Marks: 70**

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q.1 A Objective Question (MCQ). Each question carries 01 mark.

10

- Which JDBC driver type is the JDBC-ODBC bridge?
(a) Type 1
(b) Type 2
(c) Type 3
(d) Type 4
- JDBC stands for _____.
(a) Java Database Connectivity
(b) Java Database Components
(c) Java Database Control
(d) None of the above
- Which of the following is an implicit object?
(a) servletContext
(b) pageContext
(c) httpContext
(d) sessionContext
- Which is not a directive?
(a) include
(b) page
(c) export
(d) taglib
- Which of the following code delete a cookie in servlet?
(a) response.deleteCookie(cookie);
(b) request.deleteCookie(cookie);
(c) cookie.setMaxAge(0);
(d) None of the above
- Which method is used to remove a persistent instance from the datastore?
(a) Session.remove()
(b) Session.del()
(c) Session.rm()
(d) Session.delete()
- Which element of hbm.xml is used to map a Java class property to a column in the database table?
(a) id
(b) generator
(c) property
(d) class
- What is the scope of stateless bean?
(a) global-session
(b) singleton
(c) prototype
(d) request
- Which attribute specifies a JSP page that should process any exceptions thrown but not caught in the current page?
(a) The ErrorPage Attribute
(b) The IsErrorPage Attribute
(c) Both A & B
(d) None of the above
- Which tag is used to execute java source code in JSP?
(a) Declaration Tag
(b) Scriptlet tag
(c) Expression tag
(d) None of the above

- B Attempt all questions. Each question carries 02 marks. 10**
- (i) How GET method is different from POST method?
 - (ii) Differentiate between include directive and jsp:include tag.
 - (iii) What is HQL? How does it differ from SQL?
 - (iv) Write servlet which display Client Browser and IP Address information.
 - (v) Compare JSP with Servlet.
- Q. 2 A What is JDBC? Explain the types of JDBC drivers? Write a code snippet for type-4 driver. 07**
- B Explain the Servlet life cycle with necessary code example. 07**
- OR**
- A List and Explain various stages of JSP life cycle. Briefly give the function of each phase. 07**
- B Write a web application using servlet to compute an area of a circle. Get the radius from the client. Write necessary web.xml file. 07**
- Q. 3 A Write a java bean named “employee” having empid and empname having getter & setter methods. Write a JSP page to set the empid and empname for a employee object and then print them by reading from object. 06**
- B What is OR mapping? Give an example of Hibernate XML mapping file. 06**
- OR**
- A Explain the use of Prepared Statement with appropriate example. 06**
- B Write a program to create HTML form with one text box to enter number in it. When page is submitted to JSP, it should print entered number is prime or not. 06**
- Q. 4 A Draw the JSF request processing life cycle and briefly give the function of each phase. 06**
- B What is Request Dispatcher? What is the difference between Request dispatcher’s forward() and include() method? 06**
- OR**
- A Explain Web Application, Web Container and Web Architecture. 06**
- B What is filter? What is its use? List the different filter interfaces with their important methods. 06**
- Q. 5 A Explain Spring MVC Architecture in detail. 06**
- B Explain various tags in JSTL with example: (i) Core (ii) XML. 06**
- OR**
- A Write JSP Page to demonstrate shopping cart using session feature of JSP. 06**
- B Design simple java Servlet that authenticate user Login process by querying database. If user authenticate then redirect to Success.html otherwise redirect to Failure.html. 06**

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
B. Tech – SEMESTER (5) – EXAMINATION – SUMMER 2019

Subject Code: 1ET1030501

Date: 15/04 / 2019

Subject Name: Advanced Java Programming

Time: 3 Hrs.

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Answer the following Short Questions.

20

1. What are the scripting elements in JSP?
2. What are the uses of Servlet?
3. How can the session in Servlet be destroyed?
4. How to configure Hibernate.
5. What are JSP directives?
6. What is JDBC?
7. List out different implicit objects of JSP.
8. How to create a Cookie in a JSP?
9. What is Java Bean class in JSP?
10. What are the advantages of URL rewriting in Servlet?
11. Does java support global variable?
12. What we cannot do in JDBC but can do in Hibernate?
13. Can we have more than one action Servlet?
14. What are the different types of exception?
15. Java is fully object oriented language or not? Why?
16. What are the JSP implicit objects?
17. What is prototype?
18. What is the difference between Web Server and Application Server?
19. What is the difference between the GET and POST method?
20. Explain JSP expression tag.

Q. 2 Answer the following questions.

14

- A** Write a JDBC program to insert and retrieve photo in database.
- B** Explain following in brief: (1) MVC and (2) JDBC Architecture

OR

- A** Explain various JDBC drivers.
- B** Write a JSP page that accept two numbers and find all prime number between them.

Q. 3 Answer the following questions. 12

- A** Explain JSP tag library with example.
- B** Explain Servlet Life Cycle with example to demonstrate every state.

OR

Q. 4 Answer the following questions. 12

- B** Write a Java Servlet to print BE Semester 5 Marksheet of entered enrollment number by user using JDBC.
- A** Give the characteristics of the HTTP protocol and explain the GET, HEAD and PUT methods of the HTTP protocol.
- B** Draw and explain JSP architecture.

OR

Q. 5 Answer the following questions. 12

- B** Develop any Servlet application which demonstrates use of session management.
- A** Explain Hibernate Architecture and Object Relation Mapping in Hibernate with java code and required XML files.
- B** What is JSF? What are the advantages of JSF? Explain briefly the life-cycle phases of JSF.

OR

- A** What is filter? What is its use? List the different filter interfaces with their important methods.
- B** Draw and explain Java Server Faces architecture. List out JSF convertor and validator tags.

SANKALCHAND PATEL UNIVERSITY
B.Tech – SEMESTER (5) – EXAMINATION – WINTER 2019

Subject Code: 1ET1030501**Date: 06/11/ 2019****Subject Name: Advanced Java Programming****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Answer the following short questions.**20**

1. What is Web Container?
2. What is HTTP POST Method?
3. How to Execute Stored Procedure in JDBC?
4. What is ResultSetMetadata Object?
5. List All Properties of Transaction.
6. How to delete a session in servlet?
7. What is ServletContext interface?
8. Which File is used to Configure Filters to Resources?
9. How to invoke Series of Filters?
10. What are JSP directives?
11. What is the Role of EL Expression?
12. What is the Page Directive is used to prevent a JSP Page from Automatically Creating a Session?
13. Write Syntax for <c:if>.
14. What is HQL?
15. What are the Main Features of Hibernate?
16. List out the Component of JDBC.
17. What are the Basic Elements of JSF?
18. What is Java Bean?
19. What are the Different types of advices in Spring AOP?
20. List the Five tag of XML JSTL.

Q. 2 Answer the following questions.**14**

- (A) Explain JDBC driver types in detail
- (B) List and Explain various stages of Servlet life cycle. Explain role of web Container.

OR

- (A) Explain role of Prepared Statement and Callable Statement with Example.
- (B) Write a Java Servlet to print B.Tech Semester 5 Mark sheet of entered PRN number by user using JDBC.

Q. 3 Answer the following questions.

12

- (A) Explain JSTL core tags.
- (B) Explain the action tags used to access the JavaBeans from a JSP page with example.

OR

- (A) Draw the JSF request processing life cycle and briefly give the function of each phase.
- (B) Write a Jsp Page That Accept Two Numbers and Find and Display All Prime Number Between Them.

Q. 4 Answer the following questions.(Any Two)

12

- (A) What is O/R Mapping? How it is implemented using Hibernate. Explain with example.
- (B) Explain architecture of Spring MVC Framework.
- (C) Explain EL Implicit Objects.

Q. 5 Answer the following questions.(Any Two)

12

- (A) Explain Various HTTP Methods.
- (B) Explain HQL in Details.
- (C) Explain JSF Converter and Validation Tag With Example.

SANKALCHAND PATEL UNIVERSITY
B. Tech. – SEMESTER (5) – EXAMINATION – WINTER 2021

Subject Code: 1ET1030501**Date: 16/11 / 2021****Subject Name: Advanced Java Programming****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Answer the following questions. (Each of 1 mark) 20

1. How to declare JSP page that indicates page is intended to be an error page of other JSP page?
2. How the JSP page can be auto-refreshed?
3. How does HTTP and HTTPS work?
4. What is an API?
5. How to set the session timeout in the Java Servlet?
6. Differentiate ASP and JSP.
7. What is use of cookie in the web development ?
8. Differentiate web application and mobile application.
9. What is the use of forward action tags in JSP?
10. What is the application of HQL in Java web application?
11. List out JSF converter tags.
12. How to display the last modified date for the any URL?
13. What are the features of Java Server Faces?
14. What is Request Dispatcher?
15. What is the use of XML in Java Server Pages?
16. What is Filter chain in Java Servlet?
17. What is the use of Java Servlet in Dynamic web development?
18. What is ServletConfig interface?
19. How does transaction is managed in Spring framework?
20. What is the use of filter?

Q. 2 Answer the following questions. 14

- A Explain Request and Response object in the servlet.
- B Explain Structure and Component of Web Architecture.

OR

- A What is JDBC? Explain the types of JDBC drivers .
- B Describe Web Container with suitable example.

Q. 3 Answer the following questions. (Any Two) 12

- A Explain ResultSet Interface and ResultsetMetadata.
- B Explain Servlet Life Cycle with example to demonstrate every state.
- C Explain UPDATEBLE ResultSet with suitable code snippet
- D What do you mean by truncation? How does it can be manged in JDBC?

- Q. 4 Answer the following questions. (Any Two) 12
- A Explain Life Cycle of JSP Page.
 - B Explain JSF Converter and Validation Tag With Example.
 - C Explain MVC Architecture
 - D Explain the use of Callable Statement, Prepared Statement with example.
- Q. 5 Answer the following questions. (Any Two) 12
- A Write the code snippet for displaying the maximum of given three numbers using POST method of the Servlet.
 - B Write code snippet to demonstrate the use of following directives.
(i) page (ii) include (iii) taglib directive
 - C Write code for displaying mobile products on www.flipkart.com using Spring MVC framework.
 - D Explain Hibernate Architecture.

SANKALCHAND PATEL UNIVERSITY
B.Tech – SEMESTER (5) – EXAMINATION – SUMMER 2022

Subject Code: 1ET1030501**Date: 21/05/2022****Subject Name: Advanced Java Programming****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Answer the following short questions.

20

1. What is Web Container?
2. What is HTTP POST Method?
3. How to Execute Stored Procedure in JDBC?
4. What is ResultSetMetadata Object?
5. List All Properties of Transaction.
6. How to delete a session in servlet?
7. What is ServletContext interface?
8. Which File is used to Configure Filters to Resources?
9. How to invoke Series of Filters?
10. What are JSP directives?
11. What is the Role of EL Expression?
12. What is the Page Directive is used to prevent a JSP Page from Automatically Creating a Session?
13. What is Tag Handler?
14. What is HQL?
15. What are the Main Features of Hibernate?
16. List out the Component of JDBC.
17. What are the Basic Elements of JSF?
18. What is Java Bean?
19. What are the Different types of advices in Spring AOP?
20. List the Five tag of XML JSTL.

Q. 2 Answer the following questions.

14

- (A) Explain JDBC driver types in detail
- (B) List and Explain various stages of Servlet life cycle. Explain role of web Container.

OR

- (A) Explain role of Prepared Statement and Callable Statement with Example.
- (B) Write a Java Servlet to print B.Tech Semester 5 Mark sheet of entered PRN number by user using JDBC.

- Q. 3 Answer the following questions. 12
- (A) Explain JSTL core tags.
 - (B) Explain the action tags used to access the JavaBeans from a JSP page with example.
- OR
- (A) Draw the JSF request processing life cycle and briefly give the function of each phase.
 - (B) Write a Jsp Page That Accept Two Numbers and Find and Display All Prime Number Between Them.
- Q. 4 Answer the following questions.(Any Two) 12
- (A) What is O/R Mapping? How it is implemented using Hibernate. Explain with example.
 - (B) Explain architecture of Spring MVC Framework.
 - (C) Explain EL Implicit Objects.
- Q. 5 Answer the following questions.(Any Two) 12
- (A) Explain Various HTTP Methods.
 - (B) Explain HQL in Details.
 - (C) Explain JSF Converter and Validation Tag With Example.
