

KLE Society's Shri Shivayogi Murughendra Swamiji

BCA College Athani

Advanced Java Programming Final Question Bank

Unit-I

Event Handling

2 Marks Questions

1. Define Event? Give an example
2. Define Event Source? Give an example
3. What do you mean by Event listener?
4. Define AWT?
5. Write syntax to register the event in AWT?
6. List various types of events?
7. Draw the hierarchical class structure of AWT component class?
8. Define adapter classes? Mention its purpose?
9. Define inner class?
10. List the names of various layouts in AWT and mention their purpose?(hint: Flow, Border, Grid Layouts)

5 Marks Questions

1. How the events are handled in AWT? Explain with an example?
2. Explain the process delegation event model?
3. List and explain the various event classes available in AWT?OR Explain the various types of events in AWT?
4. List and explain the various types of Event listeners in AWT?
5. What are various the mouse events? How they handled in java? Explain with the example program(Mouse event handling lab program)
6. What are key events? How they handled in java? Explain with the example program(key event handling lab program).
7. Write a short note on Adaptor classes?
8. Write a short note on inner classes?

Note: Refer all advanced java Lab journal programs on this unit.

Unit-II Swing

2 Marks Questions

1. Define Swing?
2. Define JFC?
3. Define applet?
4. What is MVC architecture?
5. What are the disadvantages of AWT over swing?
6. What are the advantages of swing over AWT?
7. What are containers? Give an example.
8. What is Component in swing? Give an example.
9. Differentiate between containers and components.
10. Differentiate between light weight & heavy weight components.
11. Briefly explain the concept of platform independent?
12. Write a syntax and purpose of JLabel, JTextField Component classes.
13. Write a syntax and purpose of JList, JScrollPane Component classes.
14. Write the procedure to use JTabbedPane.
15. What is the difference between java swing and AWT.
16. What are 2 key features of java swing?
17. Write a java program to add simple JFrame?
18. Write a java program to add a single button using JButton class?
19. Write the procedure to use JScrollPane.
20. List the button types provided by swing with their class names.
21. Write a constructor and purpose of the following components (in exam any one is appear not all)
 - a) JButton b) JToggleButton c) JLabel d) ImageIcon e) JCheckBox
 - f) JRadioButton g) JTabbedPane h) JScrollPane i) JList j) JTextField

5 Marks Questions

1. List and explain the hierarchy of swing classes?
2. Differentiate java swing and AWT?
3. Explain MVC connection with block diagram.
4. Explain the java swing containers a) JApplet b) JFrame c) JPanel with an example program
5. Explain event handling in swing with example program?
6. Explain the following components with syntax of constructor and example program (IN Exam any one is appear not all)
 - a) JButton b) JToggleButton c) JLabel d) ImageIcon e) JCheckBox
 - f) JRadioButton g) JTabbedPane h) JScrollPane i) JList j) JTextField
7. List the types of buttons in swing? Explain any two.
8. Explain 2 key features of swing.
9. Write a java swing to demonstrate BorderLayout?
10. Write a java swing to demonstrate FlowLayout?
11. Write a java swing to demonstrate GridLayout?

Note: Refer all advanced java Lab journal programs on this unit.

Unit-III
JDBC Architecture

2 Marks Questions

1. Define JDBC?
2. List the types of JDBC Drivers?
3. Define statement, prepared statement and callable statement mention their purposes?
4. Which methods are used to load the JDBC and to connect the J2EE components to Database?
5. What is metadata? Mention its types.
6. What is the difference between executeQuery() and executeUpdate() and execute() methods?
7. What is connection pool?
8. Define savepoint?
9. Define Resultset Metadata? Mention its methods?
10. What is Resultset?

5 Marks Questions

1. Explain the various types of JDBC drivers?
2. Explain the JDBC Architecture?
3. Differentiate JDBC vs ODBC?
4. Explain steps involved in JDBC process with example code?
5. Explain resultset and scrollable resultset.
6. Explain callable Statement.
7. Explain preparedstatement.
8. How you delete and insert row in the ResultSet.
9. What do you mean by updatable ResultSet?
10. Differentiate ExecuteQuery(), ExecuteUpdate() and Execute() Methods of statement object?
11. Write a short note on the following
12. a) Connection pool b) Savepoint c) Batch processing in transaction d) database metadata & its methods e) Result set Metadata & its methods f) types of JDBC exceptions and warnings
13. Explain the 3 types of statement object(statement, callable and prepared statement objects)

Note: Refer all advanced java Lab journal programs on this unit.

Unit-IV
Servlet interaction & advanced servlet

2 Marks Questions

1. Define servlet? Mention servlet packages?
2. Write steps for building servlet?
3. Define the servlet API?
4. Define cookie?
5. Define session tracking?
6. Define jsp?
7. Which two packages constitute servlet API?
8. State the advantages of servlets over CGI
9. Differentiate between servlet and JSP
10. What are the exceptions thrown by a servlet
11. Name the interfaces of javax.servlet package and their purposes?
12. Name the classes of javax.servlet package and their purposes?
13. Name the interfaces of javax.servlet.http package and their purposes?
14. Name the classes of javax.servlet.http package and their purposes?
15. Give the syntax to declare variable in JSP?
16. Define Tomcat?

5 Marks Questions

1. Explain life cycle of a servlet?
2. Write the steps to write and execute the simple servlet program?
3. Write a simple servlet program to display hello world on screen.
4. List and describe the classes and interfaces of javax.servlet package
5. List and describe the classes and interfaces of javax.servlet.http package
6. Explain handling http get requests and responses in servlet with example program?
7. Explain handling http post requests and responses in servlet with example program?
8. Explain the different types of jsp tags?
9. Define variable and write a simple jsp program that declares and uses a variable
10. Write a simple jsp program for defining and calling a method
11. Write a jsp program to find factorial of a number.
12. Write a jsp program to demonstrate the use of loop.
13. Write a jsp program to demonstrate the control statements.
14. Write a short note on creating user session and cookies in java servlet?
15. Write a short note on session tracking and cookies in jsp?

Note: Refer all advanced java Lab journal programs on this unit.

Unit-V
Networking Basics & EJB

2 Marks Questions

1. Define IP and TCP
2. Define InetAddress
3. Define Inet4Address and Inet6Address
4. Define TCP/IP client sockets
5. Define URL
6. Define URL class
7. Define TCP/IP socket
8. Define datagram socket
9. Define RMI
10. Which package contains classes and interfaces for networking ?List some classes
11. What is socket? Mention two methods used for sockets
12. Which package contains classes and interfaces for networking?List some classes
13. What is DNS?
14. Using which method can you get the IP address of www.google.com
15. Define EJB?
16. List the types of EJB?
17. List the interfaces of EJB?
18. What is JAR file?

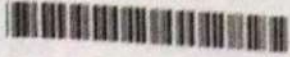
5 Marks Questions

1. Explain various URL connection methods
2. What is use of URL class ?Explain with its basic form and constructor
3. Explain different HttpURLConnection methods
4. Write a datagram example
5. Explain RMI concept
6. Explain socket and server socket
7. Explain the steps followed before running a client in RMI
8. Explain InetAddress class and its commonly used factory methods
9. Explain the types of EJB?
10. Explain the types of EJB Interfaces?
11. Explain Entity Java Bean?
12. Explain Session Java Bean and Message Driven Java Bean?
13. Write a short note on JAR file?
14. Write short notes on
 - a)Datagram socket
 - b)DatagramPacket

Note: Refer all advanced java Lab journal programs on this unit.

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IV Semester B.C.A.4 Degree Examination, May - 2019

ADVANCED JAVA PROGRAMMING

Theory

(RCU Regular 2018-19)

Time 3 Hours

Max. Marks : 80

Instructions : All Sections are compulsory.

SECTION - A

1. Answer all following questions :

2x10=20

- (a) What is Event Source and Event Classes ?
- (b) List any four JDBC drivers.
- (c) What is Servlet ? Mention Servlet Packages.
- (d) What do you mean by Datagram ?
- (e) Give the syntax to declare variable in JSP.
- (f) Define C Data.
- (g) Define implicit data and Explicit data.
- (h) What is ResultSet ?
- (i) Define Deployment Descriptor.
- (j) What is EJB ? Mention types of beans.

P.T.O.

SECTION - B

5x4=20

Answer any four of the following :

2. Explain swing features.
3. Explain EJB interfaces.
4. Explain Entity Java bean.
5. Explain JDBC architecture.
6. Explain JTextField and JToggle Button.

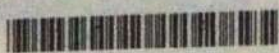
SECTION - C

10x4=40

Answer any four of the following :

7. Write a JSP program to find factorial of given number.
8. Difference between JDBC vs ODBC.
9. Explain the following :
 - (a) Result Meta Data
 - (b) Prepared Statement
 - (c) Save Point
 - (d) Database Metadata.
10. Explain Session Java bean and Message Driver Java bean.
11.
 - (a) How to user session in Java Servlet.
 - (b) Explain JAR file.

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IV Semester B.C.A. 4 Degree Examination, September/October - 2022

ADVANCED JAVA PROGRAMMING (Theory)

(Repeater)

Time : 3 Hours

Maximum Marks : 80

SECTION - A

Answer all the questions.

(10×2=20)

1.
 - a) Define event source and event listeners.
 - b) What are adapter classes? List any two adapter classes.
 - c) What is Servlet? Mention Servlet packages.
 - d) Define JDBC driver.
 - e) What are swings? What is the functionality of using JButton.
 - f) How to declare variables in JSP? Give the syntax.
 - g) Difference between JDBC and ODBC.
 - h) Define cookie. What are arguments used to define a cookie.
 - i) Define InetAddress.
 - j) What is EJB? Mention types of beans.

SECTION - B

Answer any Four of the following questions.

(4×5=20)

2. Explain JText Field and JRadioButton
3. Explain swing features.
4. Explain JDBC architecture.
5. Explain JSP tags.
6. Explain EJB interfaces.

[P.T.O.]



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SECTION - C

Answer any **Four** of the following

(4×10=40)

7. a) Explain life cycle of a Servlet.
b) How to read Servlet parameters? Give example.
8. Write a JSP program to find factorial of given number.
9. a) Explain WRL connection class with example.
b) Write Java Program to find the IP address of a given website specified by the user.
10. a) How to create user session in Java Servlet.
b) Explain JAR file.
11. Explain the following.
 - a) Prepared statement.
 - b) Resultset metadata.
 - c) Database metadata
 - d) Save Point.



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IV Semester B.C.A. UG Examination, September - 2020

ADVANCED JAVA PROGRAMMING

(Regular)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) All sections are Compulsory
- 2) Draw diagrams wherever necessary.

SECTION - A

1. Answer all the questions

(10×2=20)

- a. Define Event. What are the types of Events?
- b. List the methods of Mouse Listener Interface.
- c. Define Container and Component.
- d. Differentiate between AWT and Swings.
- e. Define JDBC Driver.
- f. Differentiate between JDBC and ODBC.
- g. Differentiate between Java Servlet and JSP.
- h. Define Cookie. List arguments used to define a Cookie.
- i. Define Datagram.
- j. Define Inet Address.

SECTION - B

Answer any four questions.

(4×5=20)

2. Explain Adapter Class with an example.
3. Explain JTabbedPane and JRadioButton.
4. Explain Prepared Statement object with an example.
5. Explain JSP Tags.
6. Explain URL Connection with an example.

P.T.O.

**SECTION -C**Answer any **four** questions.**(4×10=40)**

7. Write a Java program to implement Keyboard Events.
- 8
 - a. Explain Swing Key features.
 - b. Write a Java program containing a Combobox displaying the entries " India ", " Newzcaland ", " USA ", " Israel ", " Russia ".
- 9
 - a. Explain JDBC Architecture.
 - b. Explain JDBC Process.
- 10
 - a. Explain anatomy of Java Servlet.
 - b. Write a program to add two nos using JSP.
- 11
 - a. Write a Java Program to find the IP address of a given website specified by the user.
 - b. What is Message DrivenBean? Explain the process of creating MDB.

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IV Semester B.C.A.4 Degree Examination, May - 2019

ADVANCED JAVA PROGRAMMING

Theory
(RCU Regular 2018-19)

Time : 3 Hours

Max. Marks : 80

Instructions : All Sections are compulsory.

SECTION - A

1. Answer all following questions :

2x10=20

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- (b) List any four JDBC drivers.
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- (i) Define Deployment Descriptor.
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P.T.O.

SECTION - B

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5x4=20

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SECTION - C

Answer any four of the following :

10x4=40

7. Write a JSP program to find factorial of given number.
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9. Explain the following :
 - (a) Result Meta Data
 - (b) Prepared Statement
 - (c) Save Point
 - (d) Database Metadata.
10. Explain Session Java bean and Message Driver Java bean.
11. (a) How to user session in Java Servlet.
(b) Explain JAR fill.

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