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Department of Computer Science
Question Bank
B.Sc. Part – III Entire Semester – VI
Computer Science Paper – XIII: Advanced Java

Q.1. Select the correct alternative and rewrite the sentence.

1. JDBC stands for ___

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|--------------------------------------|------------------------------|
| 1. Java Database Connectivity | 2. Joint Database connection |
| 3. Just Dependent component | 4. none of the above |

2. ___ which allows programs to access SQL databases

- | | | | |
|--------|----------------|--------|--------|
| 1. JVM | 2. JDBC | 3. JNI | 4. IDE |
|--------|----------------|--------|--------|

3. ___ is a set of user interface components that is implemented entirely in Java

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|----------------------|--------------|-----------------|-------------|
| 1. intermediate code | 2. Byte code | 3. Swing | 4. Servlets |
|----------------------|--------------|-----------------|-------------|

4. What layout manager should You use so that every component occupies the same size in the container?

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|----------------|----------------|------------------|---------------|
| 1. Flow Layout | 2. Grid Layout | 3. Border Layout | 4. any Layout |
|----------------|----------------|------------------|---------------|

5. A GUI _

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| 1. uses buttons, menus, and icons | 2. should be easy for a user to manipulate |
| 3. stands for Graphic Use Interaction. | 4. Both 1. and 2. |

6. The Java Foundation Classes (JFC) is a set of GUI components which simplify the development of desktop applications?

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|---------|----------|
| 1. True | 2. False |
|---------|----------|

7. ___ package contains all the classes and methods required for Event handling in java.

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|----------------|-------------|---------------|-------------------|
| 1. java.applet | 2. java.awt | 3. java.event | 4. java.awt.event |
|----------------|-------------|---------------|-------------------|

8. 3 method are used to register a keyboard event listener.

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|--------------------|---------------------------|
| 1. KeyListenerO | 2. addKistenerO |
| 3. addKeyListenerO | 4. eventKeyboardListenerO |

9. What is a listener in context to event handling?

1. A listener is a variable that is notified when an event occurs.
2. A listener is a 'object that is notified when an event occurs.
3. A listener is a method that is notified when an event occurs.
4. None of the mentioned

10. Which of these events is generated when a button is pressed?

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|----------------|-------------|-----------------|--------------------|
| 1. ActionEvent | 2. KeyEvent | 3. Window Event | 4. AdjustmentEvent |
|----------------|-------------|-----------------|--------------------|

11. Which of these packages contains all the event handling interfaces?

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|--------------|-------------|-------------------|---------------|
| 1. java.lang | 2. java.awt | 3. java.awt.event | 4. java.event |
|--------------|-------------|-------------------|---------------|

12. __ method can be used to obtain the command name for invoking ActionEvent object.
1. getCommand()
 2. getActionCommand()
 3. getActionEvent()
 4. getActionEventCommand()
13. __ interface define a method actionPerformed().
1. ComponentListener
 2. ContainerListener
 3. ActionListener
 4. InputListener
14. Which method is used to set an icon to an Label?
1. setIcon()
 2. setImage()
 3. getImage()
 4. setIconImage()
15. __ interfaces define a method itemStateChanged()
1. ComponentListner
 2. ContainerListener
 3. ActionListener
 4. ItemListener
16. Which of the following option leads to the portability and security of Java?
1. The applet makes the Java code secure and portable
 2. Bytecode is executed by JVM
 3. Use of exception handling
 4. Dynamic binding between objects
17. What are the major components of the JDBC?
1. DriverManager, Statement, and ResultSet
 2. DriverManager, Driver, Connection, and Statement
 3. DriverManager, Connection, Statement, and ResultSet
 4. DriverManager, Driver, Connection, Statement, and ResultSet
18. Which is responsible for getting a connection to the database?
1. Driver
 2. Connection
 3. Statement
 4. ResultSet
19. Which of the following is/are steps for the servlet life cycle?
- i) Servlet class is loaded
 - ii) Servlet instance is created
 - iii) init,Service,destroy method is invoked
 - iv) All of these
20. Identify the method which is used to start a server thread.
- i) start thread()
 - ii) run()
 - iii) runthread()
 - iv) start()
21. JDBC is _____
- i) Java Database Communications
 - ii) Java Database Concepts
 - iii) Java Database Connectivity
 - iv) Java Database Connections
22. Change in the state of an object is known as _____ .
- i) Event
 - ii) listener
 - iii) Layout
 - iv) application
23. Which of the following interface is used to execute parameterized queries?
- i) Statement interface
 - ii) PreparedStatement
 - iii) ResultSet interface
 - iv) CallableStatement
24. Which of the following displays components row-by-row in the order in which they were added to the JFrame?
- i) CardLayout
 - ii) FlowLayout
 - iii) BorderLayout
 - iv) GridLayout

25. Syntax of jsp declaration tag is_____
- i) <% %> ii) <%= %> iii) <%! %> iv) <# #>
26. Method _____ class object is get called when button is clicked.
- i) MouseEvent ii) KeyEvent iii) ItemEvent iv) ActionEvent
27. Cookies are resides on _____ .
- i) web container ii) server side iii) client side iv) none of these
28. In Swing , _____ class allows the editing of multiple line text.
- i) JList ii) JTextArea iii) JCheckBox iv) JTree
29. A _____ is a small piece of information that is persisted between the multiple client requests.
- i) Servlet ii) Table iii) Cookie iv) URL
30. MVC stands for _____
- i) Mode View Controller ii) Model View Control
iii) Model View Controller iv) Machine View Controller
31. JSP stands for?
- i) Java server Pages ii) Java sequence pages iii) Java standard Pages iv) None of these
32. Which http method sends by browser that asks the server to get the page only?
- i) get ii) put iii) post iv) option
33. Which package is used for importing swing components?
1. javax.swing 2. java.swing 3. java.awt 4. All of these

Q.2. Attempt Any Two of the following.

1. Explain the MVC architecture.
2. Explain any four components of swing with example.
3. Explain the role of Layout managers in GUI.
4. What is a layout manager? List the predefined managers and explain any one.
5. Write note on Event, event source and event listeners.
6. Explain the event handling process in java using an example.
7. Discuss types of database drivers in Java.
8. Explain the architecture of JDBC.
9. Explain JDBC drivers with advantages and disadvantages.
10. What is JDBC? Explain in detail the process of JDBC.
11. What is JDBC? Explain JDBC connection steps with simple example.
12. Define JDBC. Mention all the steps involved in JDBC connectivity. List and explain all the JDBC components.
13. Explain Java Database Connectivity with MySQL.
14. What is a servlet? Explain the types of servlets.
15. Explain the Servlet lifecycle.

16. Explain servlet communication in detail.
17. Write a note on HttpServlet.
18. Explain different session management techniques in servlet.
19. Explain the different ways of Session tracking.
20. What is a cookie? Explain how a cookie can be created and accessed in a servlet.
21. Compare JSP and servlets.
22. Explain in brief elements of a JSP.
23. Explain the scripting elements used in JSP.

Q.3. Attempt Any Four of the following

1. What do M, V and C represent in MVC architecture?
2. Compare AWT and Swing.
3. What is a layout manager?
4. What are the advantages and disadvantages of swing?
5. Write short note on LayoutManager class.
6. List any four listeners.
7. List any four event classes.
8. List the methods of the KeyListener interface.
9. Write short note on FlowLayout class.
10. Explain two swing components: i) JList ii) JComboBox.
11. What is the difference between model and modeless dialog?
12. Explain JCheckBox and JRadioButton components in swing.
13. List the JDBC driver types.
14. Which is the character used as placeholder in PreparedStatement?
15. Name the statement types used for executing SQL queries.
16. Explain JDBC connection steps.
17. Explain Statement interface of JDBC API.
18. Explain life cycle servlet
19. Differentiate between Servlet and JSP.
20. Write a note on ServletConfig.
21. Write a note on Servlet API
22. List the JSP elements.
23. List the implicit JSP objects.
24. What is scriplet?
25. Write note on JSP session.
26. Write note on JSP Expressions.
27. Explain session management using HttpSession.

28. Explain session management using URLRewriting.

29. What is cookie? How to send cookie from server to client?

30. Differentiate between doGet() and doPost()

31. Write short note on cookies.
