



B.E DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

COMPUTER SCIENCE AND ENGINEERING

ITY108: Advanced Java Programming

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Which one is the low level event class?
 - a) ItemEvent
 - b) MouseEvent
 - c) ActionEvent
 - d) TextEvent
2. _____ is the cross platform look and feel
 - a) Metal
 - b) Windows
 - c) Grey
 - d) Mouse
3. Frame's default Layout Manager is _____.
 - a) BorderLayout
 - b) FlowLayout
 - c) GridLayout
 - d) LineLayout
4. Which subclass of Throwable is an exception checked at compile time?
 - a) NullPointerException
 - b) RuntimeException
 - c) IOException
 - d) ArrayIndexOutOfBoundsException
5. In RMI Architecture which layer Intercepts method calls made by the client/redirects these calls to a remote RMI service?
 - a) Stub and Skeleton Layer
 - b) Application Layer
 - c) Remote Reference Layer
 - d) Transport Layer
6. Compared to connection-oriented sockets, which statement about connectionless sockets is true?
 - a) They support only character streams.
 - b) They do not support two-way communication.
 - c) They do not guarantee delivery or order of receipt.
 - d) They can transmit to multiple receivers at the same time.

7. Expand for the term UDA.

a) Unified Data Access	b) Universal Data Access
c) Universal Digital Access	d) Uniform Data Access
8. Request Dispatcher object is used _____

a) to include other resources	b) to include an image
c) to include XML object	d) to include e-mailing response
9. Which represents persistent global data from the database?

a) Message Driven Bean	b) Session Bean
c) Both A and B	d) Entity Bean
10. JMS supports messages that contains _____ Java objects.

a) Nonserialized	b) Serialized
c) Static	d) Dynamic

PART B (10 x 2 = 20 Marks)

11. What is the difference between the paint() and repaint() methods?
12. Explain the relationship between an event-listener interface and an event-adapter class?
13. List out the different styles of border.
14. What is padding? Give its types.
15. Define a socket. Create a server socket listening at a port 4444.
16. Compare the difference between Reader/Writer and InputStream/Output Stream.
17. Compare the advantages of servlets over CGI.
18. Explain how to authenticate using JDBC.
19. List out the uses of Java Mail API.
20. What is Java bean? How do you create it?

PART C (5 x 14 = 70 Marks)

21. a) (i) Explain the Inheritance Hierarchy of JFrame class. (6)
 - (ii) Apply swing concepts to create a centered Frame by getting screen dimensions, set your own icon and display some information on a panel with specific font and size inside the bounded rectangle. (8)

(OR)

- b) Explain about capturing Windows events and AWT Event Hierarchy. Write a program to handle mouse events.

22. a) (i) Explain about Making Choices. (5)
(ii) Apply the swing- choice concepts to write a program to implement a clock and specify the time in text field. (9)

(OR)

- b) (i) Compare the difference between Grid and Grid Bag Layout. (5)
(ii) What are the various layouts available in Java? Explain how to Manage layout on frame windows. (9)

23. a) (i) Explain multicasting and multicast sockets. (5)
(ii) Explain the following classes and methods in detail with example. (9)
(i) InetAddress
(ii) MulticastSocket
(iii) InetAddressgetByName()

(OR)

- b) Explain about RMI architecture and write a program to implement the remote interface “sum of numbers”?

24. a) Illustrate and explain the Servlet structure and life cycle methods with a login servlet program.

(OR)

- b) Explain the JDBC configuration process and write a Java program to automate the savings bank application deposit and withdraw operations using JDBC?

25. a) (i) Explain about Java mail component. (5)
(ii) Explain about Java messaging service. (9)

(OR)

- b) What is the use of EJB containers? Briefly explain how to create Entity beans with an example.
