1. Pressing a button generates a(n)................ event
2. itemevent
3. MouseEvent
4. MouseMotion Event
5. **ActionEvent**
6. Container Event

2. Clicking the closing button on the upper-right corner of a frame generates a(n) \_\_\_event

1. itemEvent
2. **WindowEvent**
3. MouseMotionEvent
4. Component Event
5. ContainerEvent

3. To listen to mouse clicked events, the listener must implement the

…………….. interface or extend the adapter

1. **MouseListener/MouseAdapter**
2. MouseMotionListener/MouseMotionAdapter
3. Window Listener/WindowAdapter
4. ComponentListener/ComponentAdapter

4 To check whether a DELETE key is pressed or released, which handler should be used?

1. **keyPressed(KeyEvent e)**
2. **keyReleased(KeyEvent e)**
3. key Typed KeyEvent e)

5 What interface must a button listener implement?

1. **ActionListener**
2. ButtonListener
3. ClickListener
4. DeviceListener

6. What method extracts the command string from an event object?

1. **getActionCommand()**
2. getCommand ()
3. getCommandString()
4. getButton Text()

7. What method must a button listener implement?

1. buttonAction()
2. **actionPerformed()**
3. eventAction()
4. action Method()

8. Clicking a JList object generates\_\_ events

1. **ActionEvent and ItemEvent**
2. ItemEvent and ComponentEvent
3. ComponentEvent and ContainerEvent
4. ActionEvent and ContainerEvent
5. which is the container that contains the Title bar and can have MenuBars, it can have other components like buttons, textfield etc.
6. jPanel
7. **Frame**
8. j Window
9. Container

2. The following specifies the advantages of

It is lightweight

It supports pluggable look and feel

It follows MVC (Model View Controller) architecture

1. **Swing**
2. AWT
3. Both A&B

3. None of the above You want to construct a text area that is 80 character-widths wide and 10 character hel tall. What code do you use?

1. new TextArea 80, 10)
2. **Onew TextArea(10, 80)**

4. Which of the following are direct or indirect subclasses of Container?

1. **Frame**
2. TextArea
3. MenuBar
4. **FileDialog**
5. **Applet**

5.which method is used to set the text of a Label object?

1. **setText ()**
2. setLabel()
3. setTextLabel()
4. setLabel Text()

6. Which constructor creates a TextArea with 10 rows and 20 columns?

1. **new TextArea(10,20)**
2. new TextArea(2010)
3. new TextArea(new Rows(10), new columns (20)
4. new TextArea(200)

7. Which method will cause a Frame to be displayed?

1. **show()**
2. **setVisible()**
3. display()
4. displayFrame()

8. Which method is used to set the layout of a container?

1. startLayout()
2. initLayout()
3. layout Container( )
4. **setLayout()**

12. Which of the following is correct to sort the elements in a list ist?

A. list.sort()

B Collections sort(lst)

C. Arrays sort(lst)

D. new LinkedListnew String[red", "green" "blue”))

13. Which data type should you use if you want to store duplicate elements and be able to insert or delete elements anywhere efficiently

A. ArrayList

B. LinkedList

C. Vector

D Set

E.Stack

14. Which of the following are correct methods in Map?

A put(Object key, Object value)

B. put(Object value. Object key)

C getObject key)

D get(int index)

15 Analyze the following code:

public class Test {

public static void main(Stringl] args) {

map map = new Hashmap();

map.put("123", "John Smith”),

map.put('111", "George Smith”),

map.put("123", "Steve Yao"),

map.put"222" Steve Yao");

}

}

1. After all the four antes are added to the map,"125" is a key that corresponds to the value “ John Smith”
2. Alter all the four entries are added to the map. "123" is a key that corresponds to the value"Steve Yap
3. After all the four entries are added to the map, "Steve Yao" is a key that corresponds to the value "222"
4. After all the four entries are added to the map. "John Smith" is a key that corresponds to the value "123
5. A runtime error occurs because two entries with the same key "123" are added to the map

Answer: B

16. Suppose that you would like to create an instance of a new Map that has an iteration order that is the same as the iteration order of an existing instance of a Map Which concrete implementation of the Map interface should be used for the new instance?

A. TreeMap

B. HashMap

C. LinkedHashMap

D. The answer depends on the implementation of the existing instance

17 Which class does not override the equals() and hashCode() methods, inheriting them directly from class Object?

1. java lang String
2. java lang.Double
3. **java.lang.StringBuffer**

24. The process of giving each thread an equal amount of CPU time is called

Synchronizing

b) Scheduling

C)Time-slicing

D) Nore

25. public class MyRunnable implements Runnable

{

public void run()

{

// Some Void here

}

}

Which of these will create and start this thread?

a) new Runnable MyRunnable) start();

b) new Thread/MyRunnable) run();

c) new Thread(new MyRunnable()) start(),

d) new My Runnable() start();

26 Which of the following keywords prevent the data from being serialized?

1. Static
2. Synchronized
3. Transient
4. Deserialized

27 To declare a class named A with a generic type, use

1. **Public class A<E>{}**
2. Public class A<E, f>{}

6. Which two of the following methods are defined in class Thread?

1. Start
2. wait()
3. notify()
4. run()
5. terminate()
6. **1 and 4**
7. 2 and 3
8. 3 and 4
9. z and 4

7. Which three guarantee that a thread will leave the running state?

1. yield()
2. wait()
3. notify()
4. notifyAll()
5. sleep(1000)
6. aLive Thread.join()
7. Thread kitThread()
8. 1, 2 and 4
9. **2, 5 and 6**
10. C 3, 4 and 7
11. 4,5 and 7

8. Which of the following will directly stop the execution of a Thread?

1. **wait()**
2. notity()
3. notifyall()
4. exits synchronized code

9. Which method must be defined by a class implementing the java.lang. Runnable interface

1. void run()
2. **public void run()**
3. public void start()
4. void run( int priority)

10. Which will contain the body of the thread?

1. run();
2. start();
3. stop();
4. **main();**

11. Thread priority in Java is?

1. **Integer**
2. Float
3. double
4. long

12. What will happen if two threads of the same priority are called to be processed simultaneously?

a) Anyone will be executed first lexographically 6**) Both of them will be executed simultaneously** c) None of them will be executed d) It is dependent on the operating system

13. What is the output of this program?

class Multithreaded programing

public static void main(String args[])

Thread t = Thread currentThread(): System.out.println(t):

WindowDe b) Windows

Windo

e) Abo

21. Which of the following statements are true (Select the two correct answers.

1. The wait(), null), and noblA) methods must be excised in synchronized code
2. The notily() and notifyAll() methods can be used to anal and move waiting to notify to run state
3. The wait method defined in the Thread class can be used to convert a running to Wasting state
4. The Thread dess is an abstract class

22. What is true about Model-View-Controller MVC) Architecture

1. The model that stores the data that defines the component
2. The view that creates the visual representation of the component from the data in the model
3. The controller that deals with user interaction with the component and modifies the model and of the view in response to a user action as necessary
4. A Band B

23. Which of the following class provide a uniform cross-platform look-and-feel, and you can use it on any platform

1. Java swing plaf metal MetalLookAndFeel
2. com sum java.swing.plaf MetalLookAndFeel
3. a mof MouLookAndFool ( com um swing plan windows Windows LookAndFeel

com um jav swing plat windows WindowsClassicLookAndFeer 24 The way in which events are handled in using tener object is reffered to as the

a) Genuine event mode b) Java event model

Listener event Model

Delegation event model 25. Which Object we use to call the addActionListener() method to register Listener

JWndow b JButton

c) JOptionPane

d) Above all 28. Which the following methods are members of the Vector class and allow you to input o new element? a) insert

) append Cladditem

hdd Element 27. Which are Low-level Events

6) Focus Event

MouseEvent C KeyEvent

ActionEvent

d

d

**Chapter 18-21. Recursion Collection, Generics Quiz-11**

1. Which of the following syntax are correct?
2. **Comparable<String> c = new String(“abc”);**
3. **Comparable<String> c = “abc”;**
4. Comparable<String> c = new Date();
5. Comparable<Object> c = new new();;

2. The Collection interface is the base interface for ………..?

1. **Set**
2. **List**
3. **ArrayList**
4. **LinkedList**
5. Map

3. The Map is the base interface for ……………..?

1. **TreeMap**
2. **HashMap**
3. **LinerHashMap**
4. ArrayList
5. LinkedList

4. Which of the following methods are in the Collection interface?

1. **clean()**
2. **isEmpty()**
3. **size()**
4. **getSize()**

5. Which of the data types below does not allow duplicates?

1. **Set**
2. List
3. Vector
4. Stack
5. LinkedList

6. Which of the following data types does not implement the Collection Inteface?

1. HashSet
2. TreeSet
3. ArrayList
4. LinkedList
5. **Map**

**7. W**hich of the data types below could be used to store elements in their natural order based on the compareTo method

1. HashSet
2. **TreeSet**
3. LinkedHashSet
4. Collection
5. Set

8. To get an iterator from a set you may use the……………….. Method

1. Getitarator
2. Finditarator
3. **Itarator**
4. itarators

9. If you want to no-duplicate objects in the order in wich they are inserted you should use…………………

1. HeshSet
2. **LinkedHashSet**
3. TreeSet
4. ArrayList
5. linkedList

10. When you create an ArrayList using Arraylist<String> X = new ArrayList<String>(2)-

1. Two elements are created in the array list
2. No elements are currently In the array list
3. **The array list size is currently 2**
4. The array list capacity is currently 2

8. Which of the following class provides formatted input functionary?

1. inputStream
2. **Scanner**
3. DatainputStream
4. Reader

9. To get an iterator from a set you may use the ………. Mothod?

1. Gotlocetator
2. find iterator
3. **Iterator**
4. Iterators

10. Which of the following methods gives another runnable thread a chance to execute?

1. join
2. Sleep
3. **yield**

11. Which of the following is correct to sort the elements in a list lst?

1. Sort
2. **Collections.sort(lst)**
3. Arrays sort(lst)
4. new LinkedList[new String)"red", "green", 'blue'))

12. To append data to an existing file, use …………….. to construct a FileOutputStream for file out dat

1. new FileOutputStream("out.dat")
2. new FileOutputStream(out dar false)
3. **new FileOutputStream out dar true)**
4. new FileOutputStream(true, "out.dat")

13. Which type of exception occurs when creating a DatainputStream for a nonexistent file ?

1. FileNotExist
2. FileNotExislException
3. FileNotFound
4. **FileNotFoundException**

14. Which is correct for Serializable ?

1. Static fields are not serialized
2. Methods and constructors are not part of the serialized stream
3. When operation fails throw the NotSerializableException.
4. The transient keyword prevents the data from being serialized
5. **Above all**

15. What is the job of the flush() method ?

1. To flush your local disk
2. **To force writes**
3. To avoid specific data read
4. Above all

**==================================================================**

40. Thread composed of which of the following parts?

1. virtual CPU
2. Code
3. Data
4. **All of the above**

**Descriptive**

1. What is the difference between wait() and sleep?

2. What is deadlock?

3. What is stream? How do you classify them?

4. What are the types of Events?

5. What are the differences between Swing and AWT?

6. What is different between JFrame and Window?

7. Why you uso generics?

8 Draw the lifecycle of a Thread

9. What is a collection? What are the types of collection?

0. Write the difference between comparable and Comparator Interface?

1. How can you prevent a member variable from becoming serialized

1. **By marking it transient**
2. By marking it private
3. By marking it volatile
4. You can not

2. You need to store elements in a collection that guarantees that no duplicates are stored Which to interface proved that capability? (Choose two)

1. java.util.Map
2. **java.util.Set**
3. java.uti. List
4. **java.util.SortedSet**
5. java.util.SortedMap
6. java util Collection

3. Which of the following are Semantic Events (Choose two)

1. **ItemEvent**
2. FocusEvent
3. MouseEvent
4. **ActionEvent**

4. Maps are sometimes called associative arrays. The Map interface provides three methods. Which of the following in not Map method

1. entrySet
2. Keyset
3. Values[
4. **indexOf**

5.33 Which of the following statements regarding stream is correct?

1. Source streams is called InputStream
2. Source streams is called OutputStream
3. None

6. class Employee implements Comparable{

}

Which of the following is an overloaded method?

1. **compareTo(object O)**
2. compareTo(employee)
3. compare(object 01, object 02)
4. All of the above

7. Which of the following is not a method of iterator?

1. hasNext()
2. next()
3. **add()**
4. remove()

9. Which layout should you use to organize the components of a container in a tabular form

1. CardLayout
2. BorderLayout
3. FlowLayout
4. **GridLayout**

10. Which of the following are true?

1. A Dialog can have a MenuBar
2. Menuitem extends Menu
3. **A Menu Item can be added to a Menu**
4. **A Menu can be added to a Menu**

11. ----------- are referred to as heavyweight components

1. **AWT components**
2. Swing components
3. GUI components
4. Non-GUI components

12. Which component cannot be added to a container?

1. JPanel
2. JButton
3. **JFrame**
4. JComponent

13. Which of the following classes are in the java.awt package?

1. **color**
2. **Font**
3. **Component**
4. JFrame
5. JComponent

14. Analyze the following code.

import java.awt\*;

import javax.swing\*;

public class Test{

public static void main(String args) {

JFrame frame = new JFrame("My Frame");

frame add(new JButton("OK"));

frame add(new JButton("Cancel'));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setSize(200,200);

frame.setVisible(true);

}

}

1. Only button OK is displayed
2. **Only button Cancel is displayed.**

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

1. java.lang.StringBuffer
2. java.lang.Character

18. Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

1. java.util.HashSet
2. java.util LinkedHashSet
3. java.util.List
4. **java.util.ArrayList**

19. You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

1. java util Map
2. **java.util.Set**
3. java.util.List
4. java.util.Collection

20. Which interface does java.util Hashtable implement?

1. **Java.util. Map**
2. Java.util.List
3. Java.util.HashTable
4. Java.util.Collection

21. Which interface provides the capability to store objects using a key-value pair?

1. **Java.util.Map**
2. Java.util.Set
3. Java.util.List
4. Java.util.Collection

Answer: Option A

22. Which collection class allows you to associate its elements with key values, and slows you to retrieve objects in FIFO (first-in, first-out) sequence?

1. A java.util.ArrayList
2. **java.util.LinkedHashMap**
3. java.util. HashMap
4. java.util.TreeMap

23. Which collection class allows you to access its elements by associating a key with an element's value and provides synchronization?

1. java.util.SortedMap
2. java.util.TreeMap
3. java.util.TreeSet
4. **java.util Hashtable**

24. What will be the output of the program?

TreeSet map = new TreeSet():

map.add("one");

map.add two

map.add("three");

map.add("four);

map add one");

Iterator it = map iterator();

while (it hasNext())

System.out.print( it.next() + " ");

1. one two three four
2. four three two one
3. **four one three two**
4. one two three four one

**……………………………………………………………………...**

11. To add a component to JPanel, use………..?

1. **p.add(c)**
2. p.getContentPanel(c)
3. p.insert(c)
4. p.append(c)

12. The coordinate of the upper-left comer of a frame is…….

**A . (0,0)**

B. (25. 25)

C. (100, 100)

D. (10,10)

13. To create a JPanel of the Border Layout use…………………...

1. JPanel p = new JPanel()
2. JPanel p = new JPanel BorderLayout());
3. **JPanel p = new JPanel (new BorderLayout());**
4. Jpanel p = new Jpanel().setLayout(new Borderlayout());

14. Swing is an excellent replacement for

1. **Abstract Window Toolkit (AWT)**
2. Java control
3. Java drive
4. Java class

15. The Swing classes are part of a more general set of GUI programming capabilities that are collectively referred to as the...

1. Java shoo
2. Java control
3. **Java foundation class**
4. Java Control

16. JComponent is the parent of almost all Swing components. It is a direct subclass of…?

1. Java awt Frame
2. **java.awt.Container**
3. java.lang.Object

17. Respectively, Heavyweight and Lightweight components can with a few exceptions) be grouped as follows:

1. Swing and AWT components
2. Frames and Panels
3. **AWT and Swing components**
4. Panels and Frames

18. In Swing's Model View Controller (MVC) architecture, UI delegates typically encapsulate which of the following?

1. Model and View
2. Model and Controller
3. **View and Controller**
4. Model, View and Controller

19. JRootPane is used to manage

1. Component layering
2. Painting and Rendering of components
3. **A container for a content pane, layered pane, menu bar and glass pane**

20. The default layout manager used by JPanel is ….?

1. None
2. BorderLayout
3. **FlowLayout**
4. GridLayout

21. When setting the layout used by a JFrame or JDialog you usually do something like…?

1. **Call myframe.getContentPane() setLayout(...**
2. Call myframe setlayout(...
3. Call myframe getRootPanel).setLayout(...

…………………………………………………………………………..

C. Fila Filtering

D. All of the mentioned

33 What are the benefits of encapsulation ? (Choose two)

1. **To protect data integrity**
2. **Application maintainability**
3. Reusability
4. Exception handling
5. None

34 What is the priority of the thread in Output of this program?

class multithreaded programing {

public static void main(String args[]) {

Thread t= Thread currentThread();

System.out.println(t):

}

}

1. 4
2. **5**
3. 0
4. 1

35. Which of the following are true statements (Choose two)

1. A class can intent from more than one class by using the keyword extends.
2. **An interface can inherit from more than one interface by using the keyword extends**
3. A class can inherit from more than one Interface by using the keyword extends
4. **A class can inherit from more than one interface by using the keyword implements**

36. What File method creates a new disk directory?

1. make Directory()
2. dit()
3. list()
4. **mkdir()**

37. An adapter class implements a listener interface with methods that have

a) No content

**b) Content**

c) Botha and b

38. What method of a frame returns a reference to its content pane?

1. **getContentPane()**
2. contentPane()
3. iframePane()
4. getPanel()

29. Which two can be used to create new Thread? (Choose two)

1. **Extend java.lang.Thread and override the run method**
2. Extend java lang.Runnable and override the start method
3. Implement java.lang.thread and implement the fun method
4. **implement java.lang.Runnable and override the sun method**
5. Implement java lang Thread and implement the start method

25. Which statement is true for the class java util HashSet?

A.The elements in the Collection are ordered

B. The collection is guaranteed to be immutable

**C. The elements in the collection are guaranteed to be unique**

D. The elements in the collection are accessed using a unique key

26. Which of the following are true statements?

1. The Kerator interface declares only three methods, hasNext, next and remove
2. The Listiterator interface extends both the list and iterator Interfaces.
3. The Listiterator interface provides forward and backward iteration capabilities
4. The Listiterator interface provides the ability to modify the List during iteration
5. The Listterator interface provides the ability to determine its position in the List
6. 2. 3. 4 and 5
7. **1, 3, 4 and 5**
8. 3, 4 and 5
9. 1.2 and 3

27. Which statement is true for the class java.util.Arraylist?

1. **The elements in the collection are ordered**
2. collection is guaranteed to be immutable.
3. The elements in the collection are guaranteed to be unique.
4. The elements in the collection are accessed using a unique key

28. Why are generics used?

1. Generics make code more fast
2. Generics make code more optimised and readable
3. **Generics add stability to your code by making more of your bugs detectable at compile time**
4. Generics add stability to your code by making more of your bugs detectable at a runtime

29. Which of these types cannot be used to initiate a generic type?

1. Integer class
2. Float Class
3. **Primitive Types O Collections**

30. Which of these type parameters is used for a generic class to return and accept

type of object?

1. **A** b. K c . V d. G

31 Which of these keywords is used to bound a wildcard?

1. Implements b. Bound **c. extends** d. stop

32. Which of these is a correct way making a list that is upper bounded by class Number?

1. **List(?extends Number)** b. List
2. ….