MIDTERM EXAMINATION
Spring 2010
CS506- Web Design and Development (Session - 3)

Question No: 1   (Marks: 1)   - Please choose one
If we remove static from main then program _____
►Program cannot compile
►Program will compile and work properly
►Run time errors
►**Exception throws in main**   Click here for Detail

Question No: 2   (Marks: 1)   - Please choose one
If we remove String array from main then program_____
►Program cannot compile
►Program will compile and work properly
►**Run time errors**   Click here for Detail
►Exception throws in main

Question No: 3   (Marks: 1)   - Please choose one
Java developed in _____
►1990
►**1995   (Page 12)**
►1997
►2000

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MIDTERM EXAMINATION
Fall 2008
CS506- Web Design and Development (Session - 2)

Question No: 1   (Marks: 1)   - Please choose one

Which of the following methods are invoked by the AWT to support paint and repaint operations?

► **paint( )**   Click here for Detail

► repaint( )

► draw( )

► redraw( )

Question No: 2   (Marks: 1)   - Please choose one

When defining a method you must include a _____ to declare any exception that might be thrown but is not caught in the method.

► try block

► finally block

► catch block

► **throws-clause**   Click here for Detail

Question No: 3   (Marks: 1)   - Please choose one

Aside from the Scanner class, which of the following classes can be used for text-file file input?

► ObjectInputStream

► **BufferedReader**   Click here for detail

► StringTokenizer

► None of these

Question No: 4   (Marks: 1)   - Please choose one

Which of the following statements is true regarding Vectors with no specified base type?

► A base type is needed, because Java needs to know how to allocate memory.

► **No base type is needed, because Java will use the Object class as a base type.** Click here for detail

► If a base type is not specified the code will not compile.

► No base type is needed because Vectors default to storing String objects.

Question No: 5   (Marks: 1)   - Please choose one

A serializable class must implement the method(s) _____.

► readObject and writeObject

► Either readObject or writeObject, or both, depending upon the desired behavior

► **No need to implement any method**   Click here for Detail

► None of the given option

Question No: 6   (Marks: 1)   - Please choose one
You can ---------to a network using sockets.

    ► Read
    ► Write
    ► **Read/Write   (Page 222)**
    ► None of these

Question No: 7   (Marks: 1)   - Please choose one
Socket is a -------------communication channel between hosts.

    ► Uni-directional
    ► **Bi-directional   (Page 211)**
    ► Multi-directional
    ► None of these

Question No: 8   (Marks: 1)   - Please choose one
Which of the following are passed as an argument to the paint ( ) method?

    ► A Canvas object
    ► **A Graphics object**   Click here for detail
    ► An Image object
    ► A paint object

Question No: 9   (Marks: 1)   - Please choose one
The code below draws a line. What color is the line?
g.setColor(Color.red.green.yellow.red);
g.drawLine(0, 0, 100,100);

    ► Red
    ► Green
    ► Yellow
    ► **Black**

Question No: 10   (Marks: 1)   - Please choose one
To create DataBaseMetaData object we write following line of code

    ► **DataBaseMetaData db = con.getMeataData();   (Page 177)**
    ► ResultSetMetaData rsmd = rs.getMetaData();
    ► ResultSetMetaData rsmd = rs.setMetaData();
    ► DataBaseMetaData db = con.setMeataData();

Question No: 11   (Marks: 1)   - Please choose one
Event source can have --------- listeners registered on it.
     ► Single
     ► Double
     ► Triple
     ► **Multiple   (Page 125)**

Question No: 12   (Marks: 1)   - Please choose one
An abstract class -------------- instantiated.

     ► **Can't be   (Page 96)**
     ► Can be
     ► Must
     ► None of these

Question No: 13   (Marks: 1)   - Please choose one
A _____ defines the way and method of communication between two parties.

     ► Compiler
     ► **Protocol   (Page 242)**
     ► Tool
     ► Technique

Question No: 14   (Marks: 1)   - Please choose one
What if the static modifier is removed from the signature of the main method?

     ► The program does not compile
     ► The program compiles but does not run
     ► The program compiles and runs properly
     ► **The program throws an exception on compile time**   Click here for Detail

Question No: 15   (Marks: 1)   - Please choose one
What if the main method is declared as private?
     ► The program does not compile…
     ► **The program compiles but does not run**   Click here for Detail
     ► The program compiles and runs properly
     ► **The program throws an exception on compile time**

Question No: 16   (Marks: 1)   - Please choose one
A member variable or method prefixed by the **protected** access modifier can be accessed:
     ► Within the same class
     ► Within the sub-class
     ► Within the same package
     ► **All of the above**   Click here for Detail

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Question No: 1   (Marks: 1)   - Please choose one
In Java a final class must be sub-classed before it.
► True
► **False**   Click here for Detail

Question No: 2   (Marks: 1)   - Please choose one
A top level class without any modifier is accessible to
► any class
► **any class within the same package**   Click here for Detail
► any class within the same file
► any subclass of this class

Question No: 3   (Marks: 1)   - Please choose one
A top level class may have only the following access modifier.
► Package
► Private
► Protected
► **Public**   Click here for Detail

Question No: 4   (Marks: 1)   - Please choose one
In Java an abstract class cannot be sub-classed
► True
► **False**   Click here For Detail

Question No: 5   (Marks: 1)   - Please choose one
Given a one dimensional array arr, what is the correct way of getting the number of elements in arr
► **arr.length**   Click here for Detail
► arr.length – 1
► arr.size – 1
► arr.length()

Question No: 6   (Marks: 1)   - Please choose one
When recursive method is called to solve a problem, the method actually is capable of solving only the simpler case(s), or base case(s).
► **True**   Click here For Detail
► False

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Question No: 7   (Marks: 1)   - Please choose one
Which of these are valid declarations for the main method?
► public void main();
► **public static void main(String args[]); (Page 26)**
► static public void main(String);
► public static int main(String args[]);

Question No: 8   (Marks: 1)   - Please choose one
Map interface is derived from the Collection interface.
► True
► **False**   Click here For Detail

Question No: 9   (Marks: 1)   - Please choose one
In Java, which of these classes implement the LayoutManager interface?
► RowLayout
► ColumnLayout
► **GridBagLayout**   Click here for Detail
► FlowLayoutManager

Question No: 10   (Marks: 1)   - Please choose one
BorderLayout is the default layout manager for a JFrame's content pane
► **True**   Click here For Detail
► False

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MIDTERM EXAMINATION
Spring 2006
CS506- Web Design and Development (Session 1)

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Question No: 1   (Marks: 1)   - Please choose one
You want a class to have access to members of another class in the same package. Which is the most restrictive access that accomplishes this objective?
► public
► private
► protected
► transient
► **default access**   Click here For Detail

Question No: 2   (Marks: 1)   - Please choose one
In Java garbage collection is done by_____
► **JVM (Java Virtual Machine)   (Page 47)**
► Programmer
► Both JVM (Java Virtual Machine)and Programmer
► OS (Operating System)
► None of given

Question No: 3   (Marks: 1)   - Please choose one
Which of following can be thrown using the throw statement?
► Error
► Throwable
► **Exception   (Page 72)**
► RuntimeException
► All of Given

Question No: 4   (Marks: 1)   - Please choose one
_____is/are the JSP Implicit Object(s).
► session
► application
► config
► **All of Given**   Click here For Detail
► None of Given

Question No: 5   (Marks: 1)   - Please choose one
JavaBeans are?
► A special Java class file
► Servlets
► Applets
► **A Special form of JSP   (Page 367)**
► None of Given

Question No: 6   (Marks: 1)   - Please choose one
An expression tag contains a scripting language expression that is evaluated.
► **True**   Click here For Detail
► False

Question No: 7   (Marks: 1)   - Please choose one
A final class can't be extended.
► **True**   Click here For Detail
► **False**

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Question No: 8   (Marks: 1)   - Please choose one
ServletConfig defines a set of methods that a servlet uses to communicate with its servlet container.
► True
► **False**   Click here For Detail

Question No: 9   (Marks: 1)   - Please choose one
A method can not be made final until whole class is made final.
► True
► False

Question No: 10   (Marks: 1)   - Please choose one
Servlet session and JSP session have different abilities.
► True
► **False**   Click here For Detail

CS506- Web Design and Development
Some other MCQ's & quizzes

1 - What if the main method is declared as private?
►The program does not compile
►**The program compiles but does not run**   Click here for Detail **rep**
►The program compiles and runs properly
►The program throws an exception on compile time

2 - Java program code is compiled into form called
►Machine code
►native Code
►**Byte Code   (Page 16)**
►Source Code

3 - A top level class without any modifier is accessible to
►any class
►**any class within the same package**   Click here For Detail
►any class within the same file
►any subclass of this class

4 - Overloading is _____ whereas overriding is _____
► Run time binding, compile time binding
► Late binding, compile time binding
► **Compile time binding, run time binding**
► Run time binding, late time binding

5 - Static methods only access ___
► instance variable
► instance method
► **static variables and methods**   Click here For Detail
► both static and instance members

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6 - Which of the following is modifier is provided by default if no access is written explicitly?
► public
► Private
► Protected
► **Default**   Click here For Detail

7 - A top level class may have only the following access modifier.
► Package
► Private
► Protected
► **Public**   Click here for Detail   **rep**

8 - Which of the following is used for inheritance in java?
► implements
► extends
► **: (colon**)   Click here For Detail
► inherit

9 - A collection can store..........
► **Homogenous objects**
► Heterogeneous objects
► Objects as well as primitive values
► At most 100 objects

10 - Which of the following syntax is used to attach an input stream to console?
► **FileReader fr = new FileReader(' input.txt ') ;   (Page 77)**
► FileReader fr = new FileReader(FileDescriptor.in);
► FileReader fr = new FileReader(FileDescriptor);
► FileReader fr = new FileReader(console);

11 - Window frame and dialog use _____ as their default layout.
► **Border layout**   Click here For Detail
► Flow layout
► GridBag layout
► Grid layout

12 - There are _____ types of exceptions in Java
► **2   (Page 72)**
► 3
► 4
► 5

10

13 - Which of the following belongs to a category of checked exception?

► Null Pointer exception
► **IOException**   Click here For Detail
► Array index out of bounds
► NumberFormatException

14 - Which of the following exception belongs to a category of un-checked exception?

► IOException
► **Null Pointer exception**   Click here For Detail
► AWTException
► ClassNotFoundException

15 - All the exceptions and errors in java are inherited from _____ class.

► Exception
► Error
► **Throwable**   Click here For Detail
► IOException

16 - Exceptions must be handled while handling files otherwise it may lead to _____

► Logical error
► Syntax error
► **Run-time error**   (Page 70)
► No error

17 - Which of the following package needs to be import while handling files?

► java.util
► **java.io**   Click here For Detail
► java.awt
► javax.swing

18 - When defining a method you must include a/an .... to declare any exception that might be thrown but is not caught in the method:

► try block
► finally block
► catch block
► **throws clause**   Click here For Detail

19 - The classes which contain the word _____ are byte oriented streams.

► Reader
► Writer
► **Stream   (Page 87)**
► Byte

20 - Which of the following stream read/write data in the form of bytes?

► FileReader
► FileWriter
► PrintWriter
► **FileInputStream   (Page 87)**

21 - An instance of abstract class cannot be created.
► **TRUE** <u>Click here For Detail</u>
► FALSE

22 – An abstract class ---------------instantiated.

► **Cannot be** <u>Click here For Detail</u>
► Can be
► Must
► None of these

23 - The relationship between class and interface is called _____
► **' Is a ' relationship   (Page 98)**
► ' Has a ' relationship
► ' Responds to ' relationship
► None of the given options

24 - Which of the following is called ' pure abstract class ' ?
► Concrete class
► Wrapper class
► **Interface   (Page 98)**
► Abstract class with no abstract method

25 - Which of the following is called ' pure abstract class ' ?
► Concrete class
► Wrapper class
► **Interface   (Page 98) rep**
► Abstract class with no abstract method

26 - Which of the following is true about abstract class?
► An abstract class must have all methods declared as abstract methods.
► A class must have at least one abstract method to be an abstract class.
► **A class without any abstract method can be declared as abstract class.**   Click here for detail
► An instance of abstract class can be created.

27 - Which of the following stream is a filter stream?
► FileWriter
► FileReader
► **BufferedReader   (Page 91)**
► All of given options

28 - JPanel and Applet use _____ as their default layout.
► **Flow layout**   Click here for detail
► Border layout
► Grid layout
► GridBag layout

29 - Which of the following is true about AWT and SWING components?
► **AWT components create a process whereas SWING component creates a thread.**
► AWT components create a thread whereas SWING component creates a process.
► Both AWT and SWING component creates a process.
► Both AWT and SWING component creates a thread.

30 - BorderLayout is the default layout manager for a JFrame content pane
► **TRUE**   Click here For Detail
► FALSE

31 - Which of the following is a general purpose container?
► JFrame
► Dialog
► JPanel   Click Here For Detail
► JApplet

32 - Border layout divides the area into _____ regions
► 3
► 4
► **5   (Page 113)**
► 6

13

33 - Which of the following function will be used to register event handler with events generator (button)?

► addAction()
► **addActionListener()   (Page 123)**
► addListener()
► registerListener()

34 - Event source can have --------- listeners registered on it.

► Single
► Double
► Triple
► **Multiple   (Page 125)**

35 - If a class needs to handle events generated by button then which of the following interface a class needs to implement?

► ComponentListener
► KeyListener
► MouseListener
► **ActionListener   (Page 122)**

36 - Which of the following function is declared in MouseMotionListener interface?

► public void mousePressed (MouseEvent me);
► **public void mouseDragged (MouseEvent me);   (Page 130)**
► public void mouseClicked (MouseEvent me);
► public void mouseEntered (MouseEvent me);

37 - Window Listener interface contains _____ methods.
► Four
► Six
► **Seven   (Page 133)**
► Eight

38 - Mouse events can be trapped for _____ GUI component.
► JPanel
► JFrame
► JButton
► **All of given   (Page 130)**

14

39 - Adapter classes have been defined for listener interfaces except _____ interface.
► MouseListener
► KeyListener
► WindowListener
► **ActionListener**   [Click here For Detail]

40 - Which of the following package needs to import while interacting with relational database?
► java.io
► **java.sql   (Page 149)**
► javax.swing
► java.awt

41 - DSN stands for _____
► Data System Name
► Domain system Name
► **Data Source Name**   [Click here For Detail]
► Database System Name

42 - Which of the following method is used to execute SELECT SQL statements?
► executeUpdate(sql);
► ExecuteUpdate(sql);
► **executeQuery(sql);   (Page 154)**
► ExecuteQuery(sql);

43 - CREATE, ALTER, DROP are _____ SQL statements.
► DML
► **DDL   (Page 156)**
► DCL
► None of given

44 - Which of the following method is used to execute INSERT, UPDATE and Delete SQL statements?
► executeQuery(sql);
► ExecuteQuery(sql);
► **executeUpdate(sql);   (Page 153)**
► ExecuteUpdate(sql);

45 - Which of the following statement object is used to execute stored procedures?
► Statement
► PreparedStatement
► **CallableStatement   (Page 159)**
► None of given options

15

46 - HahMap takes key as a/an _____

► Object   (Page 62)
► Array
► Primitive value
► Function

47 - To create DataBaseMetaData object we write following line of code
► DataBaseMetaData db = con.getMeataData();   (Page 177)
► ResultSetMetaData rsmd = rs.getMetaData();
► ResultSetMetaData rsmd = rs.setMetaData();
► DataBaseMetaData db = con.setMeataData();

48 - A ....defines the way and method of communication between two parties

► Compiler
► Protocol   (Page 242)
► Tool
► Technique

49 - Which of the following are passed as an argument to the paint () method:

► A Canvas object-
► A Graphics object-   Click here for detail
► An Image object-
► A paint object-

50 - The code below draws a line. What color is the line?
g.setColor(Color.red.green.yellow.red);g.drawLine(0, 0, 100,100);
► Red
► Green
► Yellow
► Black

51 - Which of the following methods are invoked by the AWT to support paint and repaint operations?

► paint( )   Click here For Detail
► repaint( )
► draw( )
► redraw( )

52 - If a super class method is protected then overriding method _____
► must be protected
► **must be public**   Click here For Detail
► must be private
► may be either protected or public

53 - Socket is a --------------communication channel between hosts.
► Uni-directional
► **Bi-directional**   **(Page 211)**
► Multi-directional
► None of these

54 - Aside from the Scanner class, which of the following class/es can be used for text file file input
► ObjectInputStream
► **BufferedReader**   Click here for detail
► StringTokenizer
► None of these

55 - You can ---------to a network using sockets.
► Read
► Write
► **Read/Write**   **(Page 222)**
► None of these

56 - A serializable class must implement the method(s)............
► readObject and writeObject
► Either readObject or writeObject, or both, depending upon the desired behavior
► **No need to implement any method:**   Click here For Detail
► None of the given option

CS506- Web Design and Development
Some other MCQ 's & quizzes

Question # 1 of 10
Which of the following feature provide facility for multiple inheritances:-
► Adapter Classes
► Wrapper Classes
► **Interface**   Click here For Detail
► Collection

Question # 2 of 10

The relationship between class and interface is called _____

► **'Is a' relationship   (Page 98) rep**

► 'Has a' relationship

► **'Responds to' relationship**

► None of the given options

Question # 3 of 10

Which of the following function will be used to register event handler with events generator (button)?

► addAction()

► addListener()

► **addActionListener()   (Page 123) rep**

► Register eventhandeler()

Question # 4 of 10

The collections API are defined in _____ package?

► Java.io

► Java.util

► **Java.sql   (Page 180)**

► Java.awt

Question # 5 of 10

Which of the following is true about abstract class?

► An abstract class must have all methods declared as abstract methods.

► **A class must have at least one abstract method to be an abstract class.**

► **A class without any abstract method can be declared as abstract class**. Click here for detail   **rep**

► An instance of abstract class can be created.

Question # 6 of 10

Exceptions must be handled while handling files otherwise it may lead to____?

► Logical error

► Syntax error

► No error

► **Run time error   (Page 70) rep**

Question # 7 of 10

Which of the following stream is a filter stream?

► **BufferedReader   (Page 91) rep**

► FileWriter

► FileReader

► All of given options

Question # 8 of 10
CREATE, ALTER, DROP are _____ SQL statements.
- ► DML
- ► **DDL   (Page 156) rep**
- ► DCL
- ► None of above

Question # 9 of 10
Which of the following statement object is used to execute stored procedures?
- ► Statement
- ► PreparedStatement
- ► **CallableStatement   (Page 159) rep**
- ► None of given options

Question # 10 of 10
Based on functionality, the streams can be categorized as_____
- ► Byte oriented streams and Node Streams
- ► Filter stream and Character oriented stream
- ► **Node stream and Filter stream   Click here for detail**
- ► Byte oriented stream and Character oriented stream