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
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 listener(s) registered on it.
   ► Single
   ► Double
   ► Triple
   ► Multiple  (Page 125)

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

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

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

7 - A top level class may have only the following access modifier.
- Package
- Private
- Protected
- **Public**

8 - Which of the following is used for inheritance in java?
- implements
- extends
- **: (colon)**
- 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 ') ;`  
- `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**
- Flow layout
- GridBag layout
- Grid layout

12 - There are ________ types of exceptions in Java
- **2**  
  - (Page 72)
- 3
- 4
- 5
13 - Which of the following belongs to a category of checked exception?

- Null Pointer exception
- IOException  
- Array index out of bounds
- NumberFormat Exception

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

- IOException
- Null Pointer exception  
- AWTException
- ClassNotFoundException

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

- Exception
- Error
- Throwable  
- 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  
- 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 Click here For Detail
► FALSE

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

► Cannot be Click here For Detail
► 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
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)
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
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**  
► 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**  
► 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:**  
► None of the given option

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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**  
► 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