

CS506 Web Design and Development Solved Objective Midterm Papers For Preparation of Midterm Exam

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

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](#)

MIDTERM EXAMINATION
Spring 2006
CS506- Web Design and Development

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](#)

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

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

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** [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 - HashMap 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 - Adefines 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