# CS506 VU Final Term Past Papers Solved By Malik!!

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# VU MALIIK

**Question:1**

Which of the following problem occurs with lower priority threads?

- Starvation
- Average waiting time
- Race condition
- Process death

**Question:2**

Web.xml is a ----------

- Servlet file
- Configuration file
- Jar file
- Java file

**Question:3**

Which of the following variable value will not be set during the installation and configuration of apache tomcat server?

- Java_home
- Classpath
- Catalina_home
- Jdk_home

**Question:4**

The newly created thread can be moved to “ready state” by calling----------method

- Sleep()
- Start()
- Wait()
- Yield()

**Question:5**

Which of the following is not a servlet related package?

- Javax.servlet.servlet
- Javax.servlet

- Ja5.vax.servlet.http
- Javax.servlet.swt

**Question:7**

http response code 403 indicates that----------

- access to the requested resource was successful
- resource has been destroyed
- access to the requested resource has been denied page 231
- resource can be accessed after one hour

**Question:8**

When a thread is in "new state" during its lifecycle, it is----------

- In ready queue
- Just created page 226
- Being assigned a processor to run
- Ready to run

**Question:9**

. In the context of http response code, the values in the 200s signify that-------

- Request was successful p231
- Request was not successful
- Error by server
- Error by client

**Question:10**

Which of the following is not the stage of servlet lifecycle?

- Wait Page 267
- Service
- Destroy
- Initialize

**Question:11**

Request and response of servlet are handles at ----------stage

- Destroy

- Initialize
- Failure page 258
- Service

**Question:12**

At servlet service stage ,webserver invokes----------method

- Servletservices()
- Services() page 259
- servicesSvlt()
- svltServices()

**Question:13**

Choose correct line od code to start a thread ‘t’ in java

- t.start()
- t-start()
- t=start()
- t->start()

**Question:14**

Http response code 401 indicates that

- Request resource is available
- Request requires http authentication page 231
- Error by server
- Request resource is not available

**Question:15**

- “ready state” means a thread is in----------
- New state page 226
- Waiting state
- Ready state
- Dead state

**Question:16**

Choose correct line of code to inherit a worker class from thread class in java

- Public class worker new thread()

- Public class worker inherit thread()
- Public class worker implement thread()
- Public class worker extends thread() page 214

**Question:17**

In get http request type, attribute-value pair is attached after ----------with requested url

- #
- @
- ? page 253
- .

**Question:18**

In web.xml, root tag ----------represents web application

- Webapp
- <web-app> page 255
- <webapp>
- <web.app>

**Question:19**

Which of the following method allows any other thread of same priority to execute?

- Yield() page 224
- Sleep()
- Wait()
- Notify()

**Question:20**

In ----------state, thread is assigned a processor to run

- Ready
- New
- Running page 226
- Dead

**Question:21**

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Which of the following interface needs to implement while creating threads?

- Windowslistener
- Runnable page 212
- Actionlistener
- Serializable

**Question:22**

Which of the following range of response code signify error by server

- 300-399
- 400-499
- 200-299
- 500-599 page 232

**Question:23**

To compile a servlet(e.gmyservlet.java) ----------command is used in command prompt

- Java-c
- Java
- Java.c
- Javac page 256

**Question:25**

The----------method is used when one thread wants to wait for another thread's run method to compile its execution

- Yield()
- Sleep()
- Join() page 227
- Wait()

**Question:26**

In the context of servlet mapping in web.xml, url is provided in----------tag

- <url-source>
- <url-destination>
- <url-address>
- <url-pattern> page 255

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**Question:27**

Choose correct integer value for predefined Thread Priority "Thread.MAX_PRIORITY" in java

- 1
- 5
- 10
- 7

**Question:28**

Real world business objects are represented in_____

- Data layer
- Presentation
- Business layer
- Application layer

**Question:29**

Which of the following interface needs to implement while creating threads?

- WindowListener
- **Runnable**
- ActionListener
- Serializable

**Question:30**

Choose correct line of code to inherit a worker class from Thread class in java.

- public class Worker new Thread ()
- public class Worker inherit Thread ()
- public class Worker implement Thread ()
- public class Worker extends Thread ()

**Question:31**

When JSP page compiled, it is translated into?

- Applet
- Application
- Servlet
- Web Browser

**Question:32**

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Hidden Forms Fields contain the information that is needed to send to the

- Client
- Server
- Both server and client
- Neither server nor client

**Question:33**

Which of the following is used to work with javaBean to include pages at request time and
forward request to other sources?

- JSP action element
- JSP declaration
- Scriptlets
- JSP expression

**Question:34**

To define the error page in JSP we use following tag?

- exception-type
- error-type
- error-page
- exception-page

**Question:35**

setAttribute(String, Object) associates a---------- with a name.

- Value
- Object
- String
- Both String and Object

**Question:36**

"application" is a object of

- ServletContext
- HttpSession
- ServletConfig
- Both ServletConfig and HttpSession

**Question:37**

JSP comments are declared through following tag

- <%@ %>
- <%-- --%>
- <%! %>
- <%= %>

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**Question:38**

Which of the following is NOT true about JavaBean?

- It should not have any public variable.
- It must be serializable.
- It must not have any zero argument constructor.
- Private instances must be accessed via setters/getters.

**Question:39**

JSP page is a ---------- document that describes how to process a request to create a response.

- Text-based
- xml-based
- Both text-based and xml-based
- Neither xml-based nor Text-based

**Question:40**

From the following which is not a basic function of web-based application:

- Presentation
- Debugging
- Business Logic
- Data Management

**Question:41**

**Client is referred as a**

- Computer user
- Computer that a person is using for communication purpose
- Person which carry out web surfing
- None of these

**Question:42**

To destroy the session in Servlet we use?

- session.destroy()
- session.invalidate()
- session.end()
- session.Kill()

**Question:43**

"application" is a object of

- ServletContext
- HttpSession
- ServletConfig
- Both ServletConfig and HttpSession

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**Question:44**

Which of the following is NOT a JSP action element?

- useBean
- setProperty
- getProperty
- javaBean

**Question:45**

From the following indicators; which is added in user session to know the session time out?

- Sessiontimeoutindicator
- SessionTimeOutIndicator
- SessionTimeoutIndicator
- sessionTimeOutIndicator

**Question:46**

From following which one is the object of JspWriter used to send output to the client.

- request
- out
- response
- Both request and response

**Question:47**

Which of the following is NOT true about JavaBean?

- It should not have any public variable.
- It must be serializable.
- It must not have any zero argument constructor.
- Private instances must be accessed via setters/getters.

**Question:48**

Relationship between JSP and servlets is

- Servlets are built on JSP semantics and all servlets are compiled to JSP pages for runtime usage
- JSP and servlets are unrelated technologies
- Servlets and JSP are competing technologies for handling web requests. Servlets are being superseded by JSP, which is preferred. The two technologies are not useful in combination
- JSPs are built on servlet semantics and all JSPs are compiled to servlets for runtime usage

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**Question:49**

getId( ) returns the unique ID of

- Current session
- Previous session
- Next session
- Both Next and Previous session

**Question:50**

Which of the following is used to work with javaBean to include pages at request time and
forward request to other sources?

- JSP action element
- JSP declaration
- Scriptlets
- JSP expression

**Question:51**

Packages are the way to organize files into different ----------according to their functionality,
usability as well as category they should belong to.

- Directories
- Folders
- Libraries
- Both Folders and Libraries

**Question:53**

getAttribute(String) extracts ---------- stored value from a session object

- Subsequently
- Currently
- Previously
- Both Currently and Subsequently

**Question:54**

What is the initial contact point for handling a web request in a Page-Centric architecture?

- JSP page
- JavaBean

- servlet
- HTML page

**Question:55**

From the following methods, which method cannot be overridden in the JSP page

- _jspService()
- jspDestroy()
- jspInit()
- Both jspDestroy()and jspInit()

**Question:56**

JSP_____action element is used to obtain a reference to an existing JavaBean object.

- useBean
- setProperty
- getProperty
- None of these

**Question:57**

In JSP Instance variables and method are declared through following tag

- <%@ %>
- <% ----%>
- <%! %>
- <%= %> (not sure)

**Question:58**

All----------data is kept at the application server.

- Dynamic
- Static
- Both dynamic and static
- Neither Static nor Dynamic

**Question:59**

A java program that has some design conventions is called_____?

- Java servlet
- JSP
- JSF
- JavaBean

**Question:60**

A cookie is a piece of-------- that a web server can store on a client's hard disk.

- Text
- Number
- String
- Both Number and String

**Question:61**

Which of the following Environment variable tells the system about the root directory of TOMCAT?

- JAva_HOME
- CATALINA_HOME
- CLASSPATH
- PATH

**Question:62**

Which of the following statement is correct to assign maximum priority to thread "t2"?

- t2.setPriority(Thread.PRIORITY_MiX);
- t2.setPriority(Thread.PRIORITY_MAX)
- t2.setPriority(Thread.MAX_PRIORITY);
- t2.setPriority(Thread.MIX_PRIORITY);

**Question:63**

**Which of the following object contains information specific to a servlet?**

- ServletContext
- ServletConfig
- ServletRequest
- ServletResponse

**Question:64**

**Which of the following range of response code signify errir by server?**

- 200-299
- 300-399
- 400-499
- 500-599

**Question:65**

**From the following which ID is transmitted between the clients and the server**

- Session ID
- Network ID
- Server ID
- None of these

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**Question:66**

Which of the following is NOT a web technoloy of Java?

- Servlet
- JSP
- ASP
- JSF

**Question:67**

Moving session from one server to another in case of server failure is known as

- Session Migration
- Session Tracking
- Session Hijacking
- Both Session Hijacking and Tracking

**Question:68**

Which one is used to collect data when a user navigates between web pages?

- Session Tracking
- User Tracking
- Session Migration
- Both User Tracking and Session Migration

**Question:69**

Which of the following method allows any other thread of same priority to execute?

- sleep()
- wait()
- notify()
- yield()

**Question:70**

From the following which session tracking technique is used when new session is started?

- Cookies
- URL Rewriting
- Both Cookies and URL Rewriting
- None of these

**Question:71**

Which of the following object is used for sharing resources among different servlets of same application?

- ServletConfig
- ServletRequest
- ServletResponse
- ServletContext

**Question:72**

Which of the following interface needs to implement while creating threads?

- Serializable
- Runnable
- ActionListener
- WindowListener

**Question:73**

Session Tracking is done through following techniques?

- Cookies
- Hidden fields
- URL Rewriting
- Cookies, Hidden fields and URL Rewriting

**Question:74**

Servlets are used to

- Create graphics
- Provide dynamic web contents which extend web servers
- Develop applets
- Create GUI

**Question:75**

Which of the following is/are not correct about Thread(s)?

- Light weight
- Heavy weight
- Share same memory
- Light weight and share same memory

**Question:76**

From following which code can be used to create session object in the Servlet:

- HttpSession session = req.getSession(true);
- HttpSession session = req.getSession(false);
- HttpSession session = req.getSession(1);
- HttpSession session = req.setSession(1);

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**Question:77**

**JVM assigns CPU to the threads based on_____**

- Thread priorities
- System priorities
- Collective priorities
- Both System and Collective priorities

**Question:78**

Which of the following method is called only once during life cycle of Servlet?

- service()
- init()
- destroy()
- start()

**Question:79**

**HTTP is a _____protocol.**

- Stateless
- Connectionless
- Connection oriented
- Both Connectionless and Stateless

**Question:80**

Which of the following is NOT true about HTTP?

- HTTP is a stateless protocol
- HTTP is a request response communication model
- HTTP maintains user session between successive requests.
- HTTP has no built-in state management between successive requests.

**Question:81**

Why we use RequestDispatcher to forward a request to another resource (servlet, html, jsp), instead of
using a sendRedirect()?

- sendRedirect() is not supported in servlet API.
- RequestDispatcher is not supported in servlet API.
- RequestDispatcher is efficient and allows the server to maintain request status.

- None of these not sure

**Question:82**

getParameters() method returns an array of strings containing the values for a specified servlet parameter.

- True
- False

**Question:83**

Which of the following is not the part of http response?

- Result Code
- Header files
- Status code
- URI

**Question:84**

web.xml is a _____

- java file
- configuration file
- jar file
- servlet file

**Question:89**

A_____is a small text file used by servers to store pieces of data on a client for later retrieval.

- session
- cookie
- URL rewriting
- Session object

**Question:90**

HttpSession stores session information in

- File system of client
- File system of server
- A cookie
- A session object not sure

**Question:91**

Which of the following is NOT a part of HTTP request?

- Request method
- URI

- Status code
- Header fields

**Question:92**

Which of the following folder contains configuration file?

- classes
- lib
- bin
- WEB-INF

**Question:93**

Which of the following problem occurs with lower priority threads?

- Race condition
- Starvation
- Average waiting time
- Process death

**Question:94**

Which of the following approch is used to create threads in java?

- inheritance
- interface
- **Both inheritance and interface**
- None of these

**Question:95**

Which of the following method needs to override while handling threads in java?

- init()
- start()
- **run()**
- runnable()

**Question:96**

From the following packages which one is used to write the servlets?

- **javax**
- java
- java.util

- java.lang

**Question:97**

Servlets are used to

- Create graphics
- **Provide dynamic web contents which extend web servers**
- Develop applets
- Create GUI

**Question:98**

getrequest() method gets information from a client and postrequest() method posts data to a client.

- **False**
- True

**Question:99**

**JSP scrippiting elements is/are**

- Declarations
- Scriptlets
- expressions
- All of these

**Question:100**

From following methods; which method is not a part of the JSP life cycle?

- jspInit()
- **jspService()**
- _jspService()
- jspDestroy()

**Question:101**

From the following which one is not a JSP directive?

- page
- include
- taglib
- out

**Question:102**

To provide global control of JSP we use following tag

**<% %> right @ Answer)**

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<%-- -%>
<%! %>
<%= %>

**Question:103**

javax.servlet.jsp.PageContext, is used -------- point of access to many of the page attributes.
to give a

- **Single**
- Multiple

**Question:104**

In JSP Instance variables and method are declared through following tag

- <%@ %>
- <%-- --%>
- **<%! %>**
- <%= %>

**Question:105**

Which of the following approach is also called page-with-bean approach.

- Page-Centric approach
- **MVC Model1**
- MVC Model2
- MVC Model3

**Question: 106**

A separate controller is a part of which of the following approach?

- Page-Centric approach
- MVC Model1
- **MVC Model2**
- MVC Model3

**Question:107**

From following tags, which one is the Special JSP tag?

- **<jsp: ….. />**
- <%! %>

- <%= %>
- <%@ %>

**Question:108**

JSTL stands for_____.

- **JavaServer Pages Standard Tag Library**
- JavaSrvlet Pages Standard Tag Library
- Java Pages Standard Tag Library

**Question:109**

JSP page is a ---------- document that describes how to process a request to create a response.

- **Text**
- XML
- Both
- None

**Question:110**

A java program that has some design conventions is called_____

- java sevlet
- jsp
- jsf
- **javabean**

**Question:111**

Which of the following is not included in simple tag while creating JSP custom tags?

- Start of tag
- End of tag
- **Attributes**
- None of these

**Question:112**

Which of the following represent state of the components in MVC?

- **Model**
- View
- Control

- Both Model and View

**Question:113**

A user defined component that is used to perform certain action is called_____.

- Built-in Tags
- JSP action element
- **Custom tag not sure**
- jsp:useBean

**Question:114**

A Tier represents the _____view of application.

- **Physical**
- Logical
- Biological
- Local

**Question:115**

Which of the following is the best choice as a controller in MVC Model Architecture?

- Java
- Servlet
- JavaScript
- JSP

**Question:116**

. The HTTP response values in the range _____specify that the request was successful.

- 100-199
- **200-299**
- 300-399
- 400-499

**Question:117**

With the help of_____we can better organize our files into different directories.

- Classes
- Interfaces
- Session

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- **Packages**

**Question:119**

. Entire JSP page gets translated into a servlet_____.

- **Once Page 323**
- Every time when it is accessed
- Every time when the page is refreshed
- Every time when the browser is restarted

**Question:120**

A bean class_____have a zero argument constructor.

- Can
- Can't
- **Must Page 356**
- Shouldn't

**Question:121**

. Layers represent the _____view of application.

- Physical
- **Logical (pg 435)**
- External
- None of these

**Question:122**

High coupling makes classes difficult or impossible to reuse because _____.

- They are independent of other classes
- **They depend on so many other classes**
- They have limited functionality
- They are not properly implemented

**Question:123**

_____is a standard web based application framework.

- Java
- Servlet
- JSP

- **JSF**

**Question:125**

Which of the following is a correct order for Bean scope in JSP page from most visible to least visible?

- application, session, request, page
- **page, request, session, application**
- session, page, request, application
- application, session, page, request

**Question:126**

The dot operator in Expression Language is typically used for accessing the -_____-___-__of

- an object.
- **Properties Page 458**
- Elements
- Values
- Attributes

**Question:127**

Initialization parameters of a servlet are defined in_____file.

- html
- JSP
- **web.xml (pg 275)**
- servlet

**Question:128**

On every request from the client, the server creates a new _____and calls the _____
method.

- **thread, service()**
- thread, init()
- process, service()
- process, init()

**Question:129**

. By _____, the original request can be forwarded to the next servlet.

- **request dispatching**
- response redirection

- both request dispatching and response redirection None of the given options

**Question:130**

Which of the following is NOT appropriate for Page-centric approach?

- The maintenance of the application becomes a nightmare.
- A lot of code is also get duplicated**.**
- **Scaling of such kind of application is easy. (pg 397)**
- The code becomes a mixture of presentation, business and data access logic.

**Question:131**

Which of the following 'statement' object is used for executing precompiled SQL statements?

- Statement
- **PreparedStatement Page 147**
- CallableStatement
- None of the given options

**Question:132**

RPC stands for

- Remote Personal Computer (RPC)
- Remote Procedure Client
- Remote Procedure Calls (RPC).
- None of the given options

**Question:133**

. UDDI stands for

- **Universal Description, Discovery & Integration (UDDI) (pg490)**
- Universal Data, Discovery & Integration (UDDI)
- Universal Data, Database & Integration (UDDI)
- None of the given options

**Question:134**

Managed Beans have _____Model

- Declarative

- Sequential
- Iterative
- **None of the given options (pg465) Managed beans represent the data model**

**Question:135**

DataBaseMetaData object can be derived from_____object.

- ResultSet
- **Connection Page 165**
- Statement
- ResultSetMetaData

**Question:136**

DSN stands for_____.

- Domain System Name
- **Data Source Name Page 166**
- **Database Simple Name**

**Question:137**

From following functions which function is invoked first?

- paint()
- paintComponet( )
- paintBorder( )
- paintChildern( )

**Question:138**

There is/are _____form(s) of response redirection.

- 1
- **2 Page 270**
- 3
- 4

**Question:140**

Expression is a code fragment which returns_____.

- Integer
- **String Page 326**
- Depends on the expression
- Nothing

**Question:141**

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The dot operator in Expression Language is typically used for accessing the -----_____-___-__of

- an object.
- **Properties Page 458**
- Elements
- Values
- Attributes

**Question:142**

The **sleep(int time)** method causes the currently executing thread to wait for the time specified in ----------

- **Milliseconds page 221**
- Nenoseconds
- Seconds
- Minutes

**Question:143**

Java was developed in……

- 1990
- 1994
- 1995
- 1996

**Question:144**

CREATE TABLE, DROP TABLE, and ALTER TABLE etc are ----------.

- DML statements
- **DDL statements Page 144**
- DCL statements
- None of given options

**Question:145**

Extra sheet can be appended to URL using _____

- Extra path information
- Added Parameters
- Custom Change
- All of the given options

**Question:146**

Initialization _____of web application are also called _____

- Parameters, Context Attributes not sure

- Context Attributes, Parameters
- Parameters, Variables
- Context Attributes, Variables

**Question:147**

J2EE is developed for which of the following application

- Very large applications
- GUI based applications
- Mobile devices
- Network based applications

**Question:148**

ODBC stands for _____

- Open database communication
- Open database connection
- Open database connectivity
- Open database Commission

**Question:149**

Which of the following command is used to compile Java code?

- java filename
- javac filename.java
- javac filename
- java filename.java

**Question:152**

What if the main method is declared as private?

- 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

**Question:153**

Java program code is compiled into form called

- Machine code
- native Code
- Byte Code
- Source Code

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**Question:154**

A top level class without any modifier is accessible to

- any class
- any class within the same package
- any class within the same file
- any subclass of this class

**Question:155**

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

**Question:156**

Static methods only access___

- instance variable
- instance method
- static variables and methods
- both static and instance members

**Question:157**

Which of the following is modifier is provided by default if no access is written explicitly?

- public
- Private
- Protected
- Default

**Question:158**

A top level class may have only the following access modifier.

- Package
- Private
- Protected
- Public

**Question:159**

Which of the following is used for inheritance in java?

- implements
- extends

- : (colon)
- inherit

**Question:160**

A collection can store .....

- Homogenous objects
- Heterogeneous objects
- Objects as well as primitive values
- At most 100 objects

**Question:161**

Window frame and dialog use_____as their default layout.

- Border layout
- Flow layout
- GridBag layout
- Grid layout

**Question:162**

There are_____types of exceptions in Java

- 2
- 3
- 4
- 5

**Question:163**

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

- Null Pointer exception
- IOException
- Array index out of bounds
- NumberFormatException

**Question:164**

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

- IOException
- Null Pointer exception
- AWTException
- ClassNotFoundException

**Question:165**

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All the exceptions and errors in java are inherited from _____class.

- Exception
- Throwable
- Error
- IOException

**Question:166**

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

- Logical error
- Syntax error
- Run-time error
- No error

**Question:167**

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

- java.util
- java.io
- java.awt
- javax.swing

**Question:168**

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

**Question:169**

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);

**Question:170**

The classes which contain the word ____ are byte oriented streams.

- Reader
- Writer
- Stream

- Byte

**Question:171**

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

- FileReader
- FileWriter
- PrintWriter
- FileInputStream

**Question:172**

Which of the following is called ' pure abstract class ' ?

- Concrete class
- Wrapper class
- Interface
- Abstract class with no abstract method

**Question:173**

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.
- An instance of abstract class can be created.

**Question:174**

Which of the following stream is a filter stream?

- FileWriter
- FileReader
- BufferedReader
- All of given options

**Question:175**

An instance of abstract class cannot be created.

- TRUE
- FALSE

**Question:176**

Anabstractclass---------- instantiated.

- Cannot be
- Can be
- Must
- None of these

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**Question:177**

The relationship between class and interface is called _____

- ' Is a ' relationship
- ' Has a ' relationship
- ' Responds to ' relationship

**Question:178**

BorderLayout is the default layout manager for a JFrame content pane

- TRUE
- FALSE

**Question:179**

Which of the following is a general purpose container?

- JFrame
- Dialog
- JPanel
- JApplet

**Question:180**

JPanel and Applet use _____as their default layout.

- Flow layout
- Border layout
- Grid layout
- GridBag layout

**Question:181**

Which of the following is true about AWT and SWING components?

- AWT components creates a process whereas SWING component creates a thread.
- AWT components creates a thread whereas SWING component creates a process.
- Both AWT and SWING component creates a process.
- Both AWT and SWING component creates a thread.

**Question:182**

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

- addAction()
- addActionListener()
- addListener()
- registerListener()

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**Question:183**

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

- Single
- Double
- Triple
- Multiple

**Question:184**

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

**Question:185**

Which of the following function is declared in MouseMotionListener interface?

- public void mouseDragged (MouseEvent me);
- public void mousePressed (MouseEvent me);
- public void mouseClicked (MouseEvent me);
- public void mouseEntered (MouseEvent me);

**Question:186**

WindowListener interface contains_____methods.

- Four
- Six
- Seven
- Eight

**Question:187**

Mouse events can be trapped for_____GUI component.

- JPanel
- JFrame
- JButton
- All of given

**Question:188**

Adapter classes have been defined for listener interfaces except _____ interface.

- MouseListener

- KeyListener
- WindowListener
- ActionListener

**Question:189**

Which of the following package needs to import while interacting with relational database?

- java.io
- java.sql
- javax.swing
- java.awt

**Question:190**

Which of the following method is used to execute SELECT SQL statements?

- executeUpdate(sql);
- ExecuteUpdate(sql);
- executeQuery(sql);
- ExecuteQuery(sql);

**Question:191**

Which of the following method is used to execute INSERT, UPDATE and Delete SQL statements?

- executeQuery(sql);
- ExecuteQuery(sql);
- executeUpdate(sql);
- ExecuteUpdate(sql);

**Question:192**

Which of the following statement object is used to execute stored procedures?

- Statement
- PreparedStatement
- CallableStatement
- None of given options

**Question:193**

HahMap takes key as a/an _____

- Object
- Array
- Primitive value
- Function

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**Question:194**

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

- Compiler
- Protocol
- Tool
- Technique

**Question:195**

To create DataBaseMetaData object we write following line of code

- ResultSetMetaData rsmd = rs.getMetaData();
- DataBaseMetaData db = con.getMeataData();
- ResultSetMetaData rsmd = rs.setMetaData();
- DataBaseMetaData db = con.setMeataData();

**Question:196**

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

- A Canvas object-
- **A Graphics object-**
- An Image object-
- A paint object-

**Question:197**

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:198**

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

- paint( )
- repaint( )
- draw( )
- redraw( )

**Question:199**

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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

**Question:200**

Socket is a ---------- communication channel between hosts.

- Uni-directional
- Bi-directional
- Multi-directional
- None of these

**Question:201**

You can --------- to a network using sockets.

- Read
- Write
- Read/Write
- None of these

**Question:202**

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

**Question:203**

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

**Question:204**

In which of the following application we do not need to maintain sessions

- **Cause registering web application**
- Web based shopping carts
- Web reputation systems

- Windows shopping systems

**Question:205**

JSP_____action element is used to obtain a reference to an existing JavaBean object.

Select correct option:

- useBean
- setProperty
- getProperty
- None of these

**Question:206**

HTTP response code 401 indicates that _____.

- requested resource is available
- **request requires HTTP authentication page 235**
- error by server
- requested resource is not available

**Question:207**

Choose correct line of code to start a thread 't' in Java.

- **t.start() page 213**
- t-start()
- t=start()
- t->start()

**Question:208**

At servlet service stage, webserver invokes_____method.

- servletServices()
- **services() page 270**
- serviceSvlt()
- svltServices()

**Question:209**

Request and response of servlet are handled at_____stage.

- destroy
- initialize
- failure

- **service Page267**

**Question:210**

Which of the following problem occurs with lower priority threads?

- Process death
- **Starvation page 218**
- Race condition
- Average waiting time

**Question:211**

Thread sleep() method causes the currently executing thread to wait for the time in _____.

- Nanoseconds
- **Milliseconds page 223**
- Microseconds
- Zeptoseconds

**Question:212**

In the context of Java Thread. Sleep()method throws_____exception.

i. Index Out of bound

**b. Interrupted page 223**

**c.** File not found

**d.** Input Output

**Question :213**

Inside <servlet-mapping> tag. first write _____of the servlet using _____tag in web

.xml.

- url, <servlet-url>
- **name, <servlet-name> page 265**
  - url, <url-pattern>
  - class, <servlet-class>

Question:214

Which of the following method needs to override while handling threads in java?

- start()
- runnable()

- init()
- **run()  page 212**

**Question:215**

Which of the following variable value will not be set during the installation and configuration of Apache Tomcat Server?

- CLASSPATH
- CATALINA_HOME
- **JDK_HOME  page 247**
- JAVA_HOME

Question:216

HTTP response code 100s indicates_____.

- to continue without request
- do not continue with any request
- to continue with complete request
- **to continue with partial request  Page 234**

Question:217

Which of the following is NOT web technology of Java?

- **ASP  page 244**
- JSF
- JSP
- Servlet

Question:218

When a thread is in "new state" during its life cycle, it is_____.

- **just created  page 228**
  - in ready queue
  - ready to run
  - being assigned a preprocessor to run

Question:219

Choose the correct statement by which thread 't' causes currently executing thread to block until thread 't' finishes its run() method:

- t.sleep()

- t.start()
  - **t.join()  pg#229**
  - t.wait()

**Question:220**

If "MyServelet"is placed in "myapp" folder, then you can access "MyServlet" by writing

_____:

- http://localhost8080/myapp/MyServlet
- http://localhost8080/myapp/servelets/MyServlet
- http://localhost8080/webapps/myapp/servlets/MyServlet
- **http://localhost8080/webapps/myapp/MyServlet pg#265**

**Question:221**

In web.xml , root to_____represents web application:

- webapp
- **<web-app> pg#264**
- <web app>
- <web.app>

**Question:222**

HTTP response code 404 indicates that _____:

- **requested resource is not available  pg#235**
- request requires HTTP authentication
- requested resource is available
- error by server

**Question:223**

In the the values in the 200s signify that_____:

- **request was successfulpg#234**
- request was not successful
- error by server
- error by client

**Question:224**

Servlet mapping is defined in _____:

- JSP

- html
- servlet
  - **web.xml page 265**

**Question:225:**

Which of the following is not a servlet related package?

- javax.servlet.Servlet
- javax.servlet
- javax.servlet.http
- **javax.servlet.Svit pg#260**

**Question:226**

The newly created thread can be moved to "Ready State" by calling _____method:

- sleep()
  - **start()page 228**
- wait()
- yield()

**Question:227**

Which of the following method is called only once during life cycle of Servlet?

- **init() page 184**
- service()
- destroy()
- start()

**Question:228**

At servlet initialization stage, webserver invokes_____method.

- ServletInit()
- **init() page 267**
- initServelt()
- initialize()

**Question:229**

A servlet _____during its initialize stage.

- unloads resource/s
- accept request/s
- **Loads resources/s page 267**

- forwards request/s

**Question:230**

Which of the following is NOT a part of HTTP request?

- Header fields
- URI
- Request method
- **Status code page 232**

**Question:231**

Which of the following is NOT true about HTTP?

- HTTP is a request response communication model
- HTTP has no built-in state management between successive **requests**
- **HTTP maintains user session between successive requests 231**
- HTTP is a stateless protocol

**Question:232**

If attribute is "name" and value is "ahmad" then the GET request will be_____.

- **http://www.gmail.com/register?name=ahmad page 262,263**
  - http://www.gmail.com/register#name=ahmad
  - http://www.gmail.com/register&name=ahmad
  - http://www.gmail.com/register?name.ahmad

**Question:233**

Which of the following approach can use to create thread in java?

- Abstraction
- **Inheritance page 212**
- Composition
- Polymorphism

**Question:234**

To compile a servlet ()e.g. MyServlet.java)_____command is used in command prompt.

- java-c
- java c
- java

- **javac Page 251**

**Question:235**

JAVA_HOME indicates the_____of JDK.

- Bin folder
- Webapps folder
- Web page
- **Root directory page 248**

**Question:236**

Servlets are java's technology answer to_____programming.

- **CGI pg#245**
- Perl
- C++
- C

**Question:237**

In the context of HTTP Response Code, the values in the 400s signify that _____:

- **Error by client pg#235**
- Resource is available
- Resource is not available
- Error by server

**Question:238**

CGI(Common Gateway Interface ) was widely used for generating_____.

- **Dynamic web content pg#245**
- Mobile application
- Desktop application
- Static web content

**Question:239**

The webapps folder is the_____Tomcat directory that contains all the web applications deployed on the server.

- Least-level
- **Top-level pg#258**
- Mid-level
- Bottom-level

**Question:240**

_____is NOT the type of HTTP request.

- Delete
  - **Update Page 262**
  - Post
  - Get

**Question:241**

Which of the following range of response codes indicates that the request was successfull?

- 300-399
- 100-199
- 400-499
- **200-299 pg#234**

**Question:242**

Real world business objects are represented in_____.

- **Data layer pg#243**
- Presentation
- Business layer
- Application layer

**Question:243**

Choose correct integer value for predefined Thread Priority "Thread.MAX_PRIORITY" in java.

- 1
- 5
- **10 pg#216**
- 7

**Question:244**

Which of the following architecture introduces a controller?

- MVC Model 3
- **MVC Model 2 (Page 404)**
- MVC Model 1
- MVC Model 4

**Question:244**

A single page is doing everything that is really a best approach while making of webapplication.

- True
- **False (Page 353)**

**Question:245**

There is no upper limit on the number of layers for an application.

- **True (Page 427)**
- False

**Question:246**

Which of the following Java Bean's scope attribute has local value?

- **Page (Page 367)**
- Session
- Application
- Request

**Question:247**

By means of Page Directive, a JSP can be given the responsibility of an errorpage.

- **True (Page 389)**
- False

**Question:248**

A separate controller is a part of which of the following approach?

- **MVC Model 2 (Page 404)**
- MVC Model 3
- Page-Centric approach
- MVC Model 1

**Question:248**

Which of the following Java/J2EE technology can be used for client presentation layer?

- **Applets (Page 430)**
- JavaBean
- Java Server Faces(JSF)
- Java Server Pages(JSP)

**Question:249**

In layers architecture each layer CANNOT be further break down into several layers.

- True
- **False (Page 427)**

**Question:250**

JSP forward action element is used to forward request to another resource.

- **True (Page 373)**
- False

**Question:251**

JSP forward action element is used to include files at request time.

- True
- **False (Page 373)**

**Question:252**

Which of the following is true about simple tag in JSP?

- **All of the given options (Page 377)**
- It has no body is specified in tag
- It has start and end of tag
- It has no attribute

**Question:253**

In layered architecture, the separation of concerns maximizes the impact of addingservices/features to an application.

- True
- **False (Page 427)**

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**Question:254**

Which of the following layers provides a user interface to the client/user to interact with theapplication?

- **resentation layer (Page 428)**
- Data layer
- Data link layer
- Business layer

**Question:255**

In MVC Model 1 architecture, the JSP page alone is responsible for processing the incomingrequest and replying back to the client.

- **True (Page 403)**
- False

**Question:256**

A Layer represents the_____view of an application.

- Local
- Physical
- Biological
- **Logical (Page 427)**

**Question:257**

Which of the following Java /J2EE technology can be used for BusinessLayer?

- **JavaBeans (Page 430)**
- JSP
- Connectors

**Question:258**

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ServletsWhich of the following information is required by the JSP containers?

- Tag name

- JSP version
- Tag Library Version
- **All of the given options (Page 379)**

**Question:259**

Enterprise JavaBeans (EJB) interacts with the Database or information system to store andretrieve data.

- False
- **True (Page 431)**

**Question:260**

In context of JSP custom tag, a simple tag also has a body.

- True
- **False (Page 376)**

**Question:260**

Which of the following is true about tag with attributes in JSP?

- **All of the given options (Page 377)**
- It has attribute within tag
- It has no body enclosed
- It has start and end of tag

**Question:261**

Is it true that JavaBean class CANNOT be easily reused and composed together in anapplication?

- Yes
- **No (Page 353)**

**Question:262**

The correct way to declare a page as an error page in JSP is:

- <%@page … SetErrorPage = “true”%>
- <%@page … errorPage = “true”%>
- **<%@page … isErrorPage = “true”%> (Page 389)**
- <%@page … getErrorPage = “true”%>

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**Question:263**

The correct way to define a JSP include action element is:

- **<jsp:include page = "one.jsp"/> (Page 373)**
- <jsp:include page @ "one.jsp"/>
- <jsp:include page # "one.jsp"/>
- <jsp:include page $ "one.jsp"/>

**Question:263**

A java class that follows certain design conventions is called ____

- ServletBean
- SwingBean
- **JavaBean (Page 353)**
- JSPBean

**Question:264**

Which of the given options is NOT true for Page-centric approach?

- The code becomes a mixture of presentation, business and data access logic
- A lot of code is also get duplicated
- **Scaling of such kind of application is easy (Page 404)**
- The maintenance of the application becomes a nightmare

**Question:265**

Is it true that a JavaBean class can have any public instance variables/attributes?

- **No (Page 354)**
- Yes

**Question:266**

With custom tags, it is possible for web page designers to use complex functionality withoutknowing any Java.

- **True (Page 376)**
- False

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**Question:267**

Which of the following approach is also called page-with-bean approach.

- **MVC Model 1 (Page 404)**
- MVC Model 2
- Page-centric approach
- MVC Model 3

**Question:268**

A JavaBean class must have a zero argument constructor.

- False
- **True (Page 354)**

**Question:269**

In a JavaBean class, private values should be accessed throughsetters/getters.

- False0
- **True (Page 354**

**Question:270**

In page-with-Bean (MVC Model1) approach all the business logic goes into …….

- JavaScript
- **JavaBeans (Page 404)**
- Servlets
- JSPs

**Question:271**

Tag Library Descriptor (.tld) file is a simple text base document.

- **False (Page 378)**
- True

**Question:272**

In layered architecture the separation of concerns minimizes the impact of addingservices/features to an application

- **True (Page 427)**
- False

**Question:273**

Is it true that Enterprise application need to support multiple types of users with multipletypes of interfaces ?

- No
- **Yes (Page 401)**

**Question:274**

An error JSP is called by the web server when an uncaught exception gets occurred.

- **True (Page 389)**
- False

**Question:275**

In layered structure each layer cannot be further breakdown into further layers .

- **False (Page 427)**
- True

**Question:276**

In context of JSP custom tag, is it true that a “Tag with body” must have one or moreattribute.

- True
- **False (Page 377)**

**Question:277**

Which of the following choices is the best choice as a controller in MVC ModelArchitecture?

- JavaScript
- Java
- **Servlet (Page 421)**
- JSP

**Question:278**

Which of the following tag/s can be constructed in JSP?

- Tag with Attributes
- Simple Tag

**All of the given options (Page 376)**

- Tag with Body

**Question:279**

In context of JSP custom tags, is it true that a "Tag with Attributes" does NOT have a body?

- False
- **True (Page 377)**

**Question:280**

Which of the following is not true regarding layers?

- Easier reuse of code
- Easier maintenance
- **Provide high coupling (Page 427)**
- Provide high cohesion

**Question:281**

MVC model1 is considered desirable for complex applications.

- Yes
- No