*代*

.

Quiz 3

1. Whlch of the following statements is (are) true about the submission of HTML *forms* to a Web server?
2. Name-value pairs are sent for a form control only if the control is successful.

.

ILA form may have more than one submit button.

1. None
2. II only
3. I only
4. I and II

Correct answer is (d)

1. When a Web browser submits an HTML form to a Web server, the browser sends
2. comma-separated lists
3. encoded name-value pairs
4. XML-encoded data
5. ASN.l-encoded data

Correct answer is (b)

1. The two acceptable values for the method attribute of an HTML FORM element are
2. name and value
3. get and post
4. submit and retrieve
5. action and value

Correct answer is (b)

4Jn HTML, which of the following attributes of the FORM element specifies the program that will *process* submitted form data?

1. target
2. method
3. name 4
4. action

Correct answer is (d)

1. Which of the following statements is (are) true of Java servlets?

LThey can produce dynamic responses to client requests.

ILThey are invoked directly by clients without involvement by a server.

1. None
2. II only
3. I and II
4. I only

Correct answer is (d)

1. Which of the following HTML INPUT elements will result in a check box that appears initially in a checked state?

L<input name-chkbox1 type='checkbox‘> llxinput name-chkbox1 type=,checkbox1 value='checked、

type^checkbox1 value^checkbox1 checked=checke

Hlxinput name='chkbox‘

1. III only
2. II and III only
3. I, II, and III
4. II only

Correct answer is (a)

1. The series of interactions a user has with a Web server to carry out a task is known as a
2. transaction
3. request
4. response
5. session

Correct answer is (d)

LBefore *a Java* servlet can process a request, the Web server must first

1. ensure the servlet is loaded and initialized
2. formulate a response to be sent to the client browser
3. restart any running instance of the servlet
4. forward the request to the client browser

Correct answer is (a)

to requests from clients.

1. Through a ■ Java servlets respond
2. server-push mechanism, indirectly
3. Web server, indirectly
4. server-push mechanism, directly
5. Webserver; directly

Correct answer is (b) lO.ConsIderthe following HTML FORM element.

〈FORM action=7servlet/Welcome' method-post'>

The action attribute in the above element specifies which of the following regarding the servlet used to process this form?

I.The name of the servlet

ILThe location of the servlet

1. II only
2. I only
3. I and II
4. None

Correct answer is (c) ll.Consider the following URL, which corresponds to the submission of an HTML form.

<http://wwwxarnegietech.org/search?keyword=MCQ&course=SSDl>

the submitted form are

According to the URL, the names of the two successful controls in

1. keyword and course
2. MCQand SSD1
3. search and HTTP
4. search and GET

Correct answer is (a)

12・Which of the following is (are) necessary for a radio button or checkbox control in an HTML form to be considered successful?

Lit must be checked or selected.

ILThe HTML FORM element in which it appears must contain at least one INPUT element with a type of hidden.

IILThe HTML element that defines it must set a value for the attribute named value.

1. I only
2. II only
3. I and III only
4. II and III only

Correct answer is (c)

13.In HTML, which of the following is an attribute of the INPUT element that can be used to specify the initial value *of* a single-line text-input control?

1. initial
2. defauIt
3. name
4. value

Correct answer is (d)

14.Consider the following events, which occur during the processing of a Java servlet,

1. The servlet generates HTML on the fly
2. The server sends a response to client
3. *The* servlet sends a response to server
4. The client sends a request to server

Which of the following indicates the order In which these events typically occur?

(a)A,C,D,B

(b) D, A, B, C

(d) D, A, C B

Correct answer is (d)

IS.Typically, a request from a client browser is forwarded to a servlet by a

1. Web server
2. cookie
3. response header
4. request header

Correct answer is (a)

16」n the client-side mechanism clienbpulb are generated •

1. responses, manually
2. responses, automatically
3. requests, automatically
4. requests, manually

Correct answer is (c)

17」n the name-value pairs that represent a submitted HTML form, names are separated from values by the character , and pairs are separated from one another by the character .

1. =, ?
2. &, ?
3. &/= —
4. =, &

Correct answer is (d)

18Jn HTML, which of the following is (are) true about form controls?

I.The name-value pair associated with a control is submitted only when the control is successful. ILWhen a form is reset, the values of its controls are set to their initial values, where initial values are specified^

II^The default value of *a* control is changed when a control Is updated by a user.

1. *1,* II, and III
2. *I only*
3. I and II only
4. II only

Correct answer is *(c)*

19 The control of a client-server transaction maintained by the Web server is known as

1. server pull
2. client push
3. server push
4. client pull

20Java servlets enable 一

content at the.一 of the implementation of an application.

1. dynamic, server side
2. static, server side
3. dynamic, client side
4. static, client side

Correct answer is (a)

21.For a given Java servlet, which of the following events typically result(s) in the termination of the servlet?

I .The servlet completes a request and forwards its response to the server.

11.The server sends a servlet's response to a client

1. None
2. I and II
3. II only
4. I only

Correct answer is (a)

22A Java servlet is a program that typically runs inside which of the following?

LA Web server

II.A Web browser

1. None
2. I only
3. II only
4. I and II only

Correct answer is (b)

1. Web servers typically use to distinguish between requests from multiple clients.
2. META tags
3. cookies
4. servlets
5. aliases

Correct answer is (b)

1. TypicalM after a servlet has returned to its host server a response to be forwarded to a browser; it will
2. *be* initialized by the Web server
3. issue *a command* to terminate the Web server
4. continue to run, awaiting subsequent requests
5. *be* terminated by the Web server

Correct answer *is* (c)

1. The action attribute of an HTML FORM element determines
2. the network protocol used to submit the data of the form
3. a list of form controls to submit
4. the processing agent to which the data of the form is submitted
5. the encoding standard used to encode the data of the form

Correct answer is (c)

26. In an HTML FORM element, the values get and post are the only valid options for which of the following attributes?

1. enctype
2. action
3. method 二
4. accept

Correct answer is (c) . [ 总

**Quiz 4**

1. When compiling a Java program that contains syntax errors, the Java compiler will always

1. ignore the syntax errors and will generate a program that produces approximate results
2. ignore the syntax errors and will generate a program that produces correct results
3. report syntax errors at some approximate locations and will not successfully compile
4. report syntax errors at the exact locations and will not successfully compile

Correct answer is (c)

*2・* Upon compilation, the source code of a Java class MyClass will be stored in the file , and

the corresponding byte code will be stored in the file -

1. MyClass.java, MyClass.exe

.

1. MyClassjava, MyClass.class
2. MyClass.class, MyClass.exe
3. MyClass.class, MyClass.java

Correct answer is (b)

3. How manyclass11 files will be generated after a successful compilation of any Ljava" file?

1. Exactly one
2. At most one
3. At least one
4. None

Correct answer is (c)

1. |n Java programming, a programmer creates ——fig and then a compiler translates them to files. 土通逕割
2. source, byte code
3. HTML, byte code
4. byte code, source
5. source, HTML
6. When compiling a Java program that contains syntax errors, the compiler will always
7. fix the syntax errors and complete the compilation
8. fall to complete the compilation and report a guess of what and where the errors are
9. fail to complete the compilation and

report the exact location of each error

1. ignore the syntax errors and create a compiled program without the lines containing *errors*

Correct answer is (b)

1. Of the following phases of programming, which is generally the phase on which most time is spent?
2. Testing and evaluation
3. Coding
4. Defining the problem
5. Planning a solution to the problem

Correct answer is (a)

1. When a Java class is designed, which of the following is a part (are parts) of the planning stage? Deciding how to display the results

Writing a problem definition

.

Identifying the data needed to solve the problem

1. II only
2. I and III
3. II and III
4. I and II

Correct answer is (c)

1. Which of the following statements is true of the process of programming? (a) Programming is synonymous with coding.

(b) Most of the time spent in programming is usually spent planning the solution to a problem

1. The best way to program is to begin coding immediately, and then to follow up by testing.
2. Programming can be made easier by dividing a larger problem into smaller pieces.

Correct answer is (d)

1. In addition to coding, the process of programming model involves which of the following? Evaluation and testing '

Defining and redefining a problem

Planning a solution to a problem

(a) II and III only

1. None
2. I, II, and III
3. I only

io. Valid Java comments include wh\* h

/\* this is an/\* embedded \*/cornm « 'thefollowing?

/\* this is an//embedded//comrX'v

//this is a comment ♦/ '

1. I and III only
2. I only
3. It and III only
4. I and il only

Correct answer is (c)

IL What is the name of the class whose public class Hello extends Greeting

1. Hello

efinition is begun by the following line?

1. Hello>Greeting
2. Greeting
3. Greeting.Hello

Correct answer is (a)

1. Which of the following is a Java statement that imports classes in the package java.sql?
2. import java>sql;
3. import java.sqlall;
4. import java.sql.\*;
5. import all java.sql;

Correct answer is (c)

1. The following is a Java program segment: public void paint (Graphics g)

(

int x = 10;

int y = 20; paintPicture( g, *x】*y)；

public void paintPicture(Graphics g, int a, int b)

g.setColor(Color.red);

// rnore code follows

What will be the value *of* the parameter *a*

in the method paintPicture when this code is

executed?

1. 0
2. 20

ThE is an error because the parameter nan was never declared and

1. 10
2. This will not compile.

never given a value-

Correct answer is (c)

within a

1. In Java, it is possible to define a
2. method, variable
3. method, method
4. class, method
5. method, class

Correct answer is (d)

• x— +卜与十 jnout by a user into an

1. In a Java servlet, which of the following lines can cause data

HTML form to be retrieved?

1. response.getWriter();
2. response.setContentType(l,text/htmr,)；
3. request.getParameter(”Name”)；
4. out.println(l,Form value11)；

Correct answer is (c)

1. Which of the following statements is (are) true about debugging and testing servlets? After a change is made to a servlet, the servlet must be recompiled for the change to take effect. Modifying the parameters of calls to the method out.println can change the HTML in the response of a servlet.
2. I only
3. II only
4. None
5. I and II

Correct answer is (d)

1. Which of the following is (are) true regarding the Java API documentation? The list of classes can be filtered by package.

Typically, only the most important methods of a class are listed.

The documentation for one class often refers to other classes,

1. I, II, and III
2. I and HI only
3. I and II only
4. li and ill only

Correct answer is (b)

Consider the following class.

public class Appletclass extends Java.applet.Applet ( public void palnt(java.awt.Graphics g)

g.drawStringC'Welcome to Javal'1, 30, 30);

Before compiling this class, the Java compiler requires that it be stored with which of the following names?

1. AppletClassjava
2. Appletjava
3. AppletClass.applet
4. Any filename with the extension ” Java”

Correct answer is (a)

1. Programming involves four general phases that the programmer moves Into and out of during the development of a program. The order in which the programmer moves through these phases is generally which of the following?
2. There is no defined order. The programmer moves into and out of one of the various four phases as dictated by circumstance and situation while writing the program.
3. planning ~> redefining”〉coding-> testing
4. planning ~> coding ~> testing -> analyzing
5. deflning/redefining -•> planning ~> implementing/coding -> testing/analyzing

Correct answer is (a)

1. Consider a Java source file that begins with the following line.

import javax-servlet.http.\*;

In this file, which of the following lines *of* code can introduce a valid definition for a Java servlet class named Welcome?

1. public servlet Welcome extends HttpServlet
2. public class Welcome extends HttpServlet
3. new Welcome extends HttpServlet
4. servlet class Welcome

*Correct* answer is (b)

1. *Consider* a *Java* servlet that is invoked upon the submission of a form. If the form contains a *radio* button control with the name Foo, which of the following lines of code in the servlet can retrieve the value of this radio button?
2. requestgetFoof);

*(b)* request.,

*etParameterCFoo^* radio);

1. request.getRadio(,,FooH);
2. request.getParameter(,,Fooh);

Correct answer is (d)

22Model elements

tn Java programs

that share a common behavior can be grouped into

categories called

1. objects
2. codes
3. classes
4. programs

23Which ofthe following Is not true of the process *of* programmmg^^

1. The overall model of programming is a step-by step,' .
2. A large amount of time is usually spent in evaluation and te \* g-

(C)，tis lmportantto p，an Emms t。Prob\* 严;:當二；after coding has been done.

(d) It is sometimes necessary to redefine parts of a pro ‘

Correct answer is (a)

1. Which of the following must be the first phase of the programming Pr0
2. write better comments in the program solution
3. understand the problem better
4. rewrite the problem using fewer words
5. reduce syntax errors in the program solution Correct answer is (b)

.

1. Which of the following must be the first phase ofthe programming process?

(a) Defining the problem

1. Coding
2. Planning the method for obtaining the input
3. Planning a solution to the problem

Correct answer is (a)

1. Valid comments in Java include which ofthe following? /\* Comment 1 \*/

//Comment 2

\* Comment 3

*\*/*

(a) *\t ll,* and III

1. I and II only
2. I and III only
3. *II* only

Correct answer is (a)

27. Which of the following attributes of an HTML FORM element determines whether a submission of the *form* will be processed by the servlet method doPost or the servlet method doGet?

1. method
2. name
3. target
4. action

28. Consider a Java servlet that is invoked upon the submission of a form. If the form contains a radio button control with the name Foo, which of the following lines of code in the servlet can retrieve the value of th is radio button?

1. requestgetParameter(l,Foo,,/ radio);
2. request.getParameter(nFoou);
3. request.getFoo();
4. requestgetRadjoCFoo1\*);

Correct answer is (b)

1. A Java servlet can be declared with the type of content it will produce, such as image/gif or text/html, by using a call to which of the following methods of HttpServletResponse?
2. encodeURL
3. addCookie
4. resetBuffer
5. setContentType

Correct answer (d) 銘赢

1. Which of the following is a term for a set of classes and methods that provide a reusable foundation for a programmer?
2. Java Runtime Environment (JRE)
3. Graphical User Interface (GUI)
4. *Java* Virtual Machine (JVM)
5. *Application* Programming Interface (API)

*Correct* answer is (d)

*31.* In Java, the method HttpRequest.getParameter returns an object of which of the following *classes?*

1. Parameter
2. String
3. HttpRequest
4. Printwriter

*Correct answer is* (b)

1. In *Java programming, a* programmer creates files, and then a compiler translates them to files.
2. source, byte code
3. byte code, source
4. HTML, byte *code*
5. source, HTML

Correct answeris (a)

1. When programming a Java applet, a programmer creates a(n) fHe, which a Java compiler translates into a(n) file.
2. bytecode； source code
3. HTML, bytecode
4. source code, bytecode
5. source code, HTML

Correct answer is (c)

1. Which of the following is a keyword in Java?
2. import
3. servlet
4. println
5. comment

Correct answer is (a)

35A Java servlet can obtain an object for sending data to the client of the servlet by calling which

.

of the following methods of HttpServletResponse?

1. getCharacterEncoding
2. getWriter
3. encodellRL
4. setContentType

Correct answer is (b)

36Which of the following is (are) true regarding computer programs and code?

The content of a program is called code.

Executing code means erasing the code.

Programs consist of text that can cause a computer to perform a task.

1. li and III only
2. I, II, and III
3. I and III only
4. I and II only

Correct answer is (c)

37Redefining a problem is often done so the programmer can

1. rewrite the problem using fewer words
2. understand the problem better
3. write better comments in the program solution
4. reduce syntax errors in the program solution

Correct answer is (b)

Quiz 5

1. Which of the following can be a valid definition for a Java class?
2. public void class Welcome extends HttpServlet {}
3. Welcome extends HttpServlet (}
4. public class Welcome extends HttpServlet {}
5. public Welcome class extends HttpServlet ()

Correct answer is (c)

1. Which of the following Is true if a Java class is declared public?
2. The class can be used only by other classes in the same package.
3. The class can be used only by Java applets, not by Java applications.
4. The class can be accessed by any other class.
5. The source code of the class is freely available for viewing.

Correct answer is (c)

1. Which of the following variable names conforms to Java naming conventions?
2. AmountOfFuelRemaininglnTheTank
3. fuel\_remaining
4. FuelRemaining
5. fuelRemaining

Correct answer is (d)

1. Which of the following is (are) consistent with Java naming conventions regarding capitalization?
2. int numPeople;
3. int Counter;
4. class serviceElevator{)
5. None
6. I only
7. *\,* IL and III
8. I and ill only

Correct answer is (b)

5. *Consider* the *following* Java code segment. *public class IQ*

*(*

*public int getlQ(String s)*

*{*

*return* 50;

}

which of the following is a Java statements that will not

If object p is an instance of class IQ generate a compilation error?

1. Int c = p.getlQ("alexu);
2. String s = IQ.getlQ(p);
3. getlQ.p(nbobH)；
4. IQx = getlQC'chuckn);

Correct answer is (a)

about methods in Java?

1. Which of the following statements Is true

I.Every method must be declared public.

ILEvery method must accept at least one parameter.

lILEvery method must return a value.

1. (I and 111 only
2. I, II, and III
3. lit only
4. none of them

Correct answer is (d)

1. Which of the following Is not a valid name of a Java method?
2. 3jane
3. RESET .
4. Napoleon\_The\_First
5. fred$wallet

Correct answer is (a)

1. Suppose you are given a class called List which has print as one of its methods and a correctly instantiated object called mylist. Which of the following could be a valid call to the print method?
2. myList.print;
3. print.myList();
4. print(List);
5. myListprintO;

Correct answer is (d)

1. Consider the following Java code fragment, public class TrafficLight(

Int status;

public void changeStatus(int newStatus) { status = newStatus;

}

public void turnOn(int newStatus) ( //...

}

)

,n the method turnOn, which of the following statements changestatus?

should be used to call method

1. changestatus.newStatus;
2. TrafflcLight.changeStatus(newStatus);
3. changeStatus(newStatus);

(d) ch a ngeStatus(TrafficLight, newStatus); Correct answer is (c)

10・ If variable br references an instance of the class javaJo.BufferedRead following statements is a legal call to the method readLine of the class?

龍 which of the

1. br.readLine();
2. br(readLine);
3. readLine(br);
4. br.readLine;

Correct answer is (a)

11. Consider the following line of Java code, public void log() throws Exception The line of code is a method

1. delimiter 3%；说
2. body
3. *definition* 羿f
4. prototype

Correct answer is (d)

12- Variables that are declared in the prototype of a Java method are called

1. parameters
2. return-types
3. instance variables
4. static variables

Correct answer is (a)

13. If pl is an object of a class Point and pl.drawCircle can be called from any Java class, which of the following statements about the method drawCircle in class Point must be true?

1. *The* method has three arguments,
2. *The method* returns three values.
3. *The* keyword public was used in the method's definition-
4. *The method has* no arguments.

*Correct* answer is *(c)*

1. what *operator is used* to allocate storage for objects?
2. ==
3. *=*
4. *init*
5. new

Correct answer is *(d)*

1. which of the following method names adheres to the Java naming convention standards?
2. is-empty 3\* 嚣隨^
3. IsEmpty
4. IsEmpty
5. is\_empty

Correct answer is (c)

1. What is the return value of the following method.

void return\_value(String s, int i) {

// code here

}

1. It does not have a return value.
2. Its return value is String.
3. Its return values are String and int.
4. Its return value is int

Correct answer is (a)

1. Valid method definitions in Java include which of the following?
2. public method myMethod() {}
3. public void myMethod(int i) (}

ULpublic void myMethod {}

1. None
2. II and III only
3. I only
4. II only

Correct answer is (d)

1. The following line can be the start of

public void paint(Graphics g)

1. a method call
2. a class definition
3. a method definition
4. a variable declaration

Correct answer is (c)

1. Which of the following is (are) true regarding objects in Java?
2. Every object is an Instance of a class.
3. Objects of the same class share a common set of behaviors.
4. I and I!
5. None
6. II only
7. I only

Correct answer is (a)

1. Which of the following is (are) true regarding object state and behavior in Java? LObjects of the same class always share the same state.

ILObjectsofthesameclassa|Wav. u

"。仍 SEmebehg.

1. None
2. *I* and II
3. I only

Correct answer is (a)

1. Which ofthe following is (are)true

I.The Java language has some 亦撮 曾瞼 objects in Java?

1. I and II
2. II only
3. I only

Correct answer is (d)

2；严,ofthe following is (are) true regarding return values in Java? LThey allow a method to report only one value.

H.They are automatically output to the user.

1. None
2. I only
3. I and II
4. II only

Correct answer is (b) 23. The brackets l'{1' and "}" that mark the beginning and end of a Java class definition are

1. delimiters
2. operators
3. prototypes
4. terminators

Correct answer is (a)

kpinw correctly constructs an object using the following 24. Which of the statements below srrecuy

constructor?

Plane(int *a,* int b, int *c)*

*{*

//code

}

1. p = new Plane;
2. p = new Plane(爲 *L* 3)；
3. p = Planefl, *2,* 3)；
4. p = Plane;

心典 of instance variables are known as 26.ln Java, methods that change or return

Qthodare known

.血 of a metno

25, In Java, variables declared in the

1. instance
2. local
3. class
4. public

Correct answer Is (b)

methods.

1. parameter
2. class
3. instance
4. accessor Correct answer is (d) 27.ln Java, methods used to create an object of a class are typically kn
5. makers
6. creators "M
7. constructors
8. accessors

Correct answer is (c)

1. In Java, a variable that can be accessed by all methods of any given class is a(n) variable.
2. constructor
3. instance
4. argument
5. local

Correct answer is (b)

1. In a Java class Hello, a method declared to be public can be called bv
2. any class Y
3. only the classes in the same package as Hello
4. only the class Hello
5. only the class Hello and the subclasses of Hell。

Correct answer is (a)

30. Consider the following line of Java cod public int log() throws Exception What is the return type in the line ofcode?

1. Exception e,
2. throws
3. public
4. int

Correct answer is (d)

I Progeny iS (are) true regarding objects in Java? •Programmers use classes to create objects.

».An object can belong to more than one class.

1. I only
2. II only
3. I and II
4. None

Correct answer is (a)

1. In Java, a method with the same name as its class is known as a
2. clone
3. constructor
4. synonym
5. default behavior

Correct answer is (b)

1. In Java, the initial values of method parameters are set by
2. arguments of the invoking message
3. access control
4. accessor methods
5. initialization statements Correct answer is (a)
6. In Java, which of the following is true about constructors?
7. Constructors can only accept primitive Java types as parameters.
8. Constructors can only return 0 or a negative integer.
9. Constructors must be declared for every class.
10. Constructors cannot return a value. Correct answer is (d)
11. Which of the following is (are) true of constructors in Java?
12. Constructors can have arguments.

ILA class can have multiple constructors.

1. II only
2. None
3. I only
4. I and II

Correct answer is (d)

Quiz 6

1. Consider the following program segment.

public String asslgn$tring(lnt x) (

String s=null; 言

if (x<5) s = "less than 5";

if (x<10) s = "less than 10";

else s = “greater than 10H;

return s;

} Argument what String value will be

If the method assignString is called with the value 4 as i &

returned?

1. "greater than 10"
2. ''less than 5"
3. 11 less than 10"
4. null

Correct answer is (c)

1. Consider the following Java program segment

int i = 3;

int j = 2;

if ((j < 0) && (i > 1))

i = i \* 2;

else

At the end of execution of the program segment, the values of variables i and j will be, respectively,

1. 3 and 1
2. 3 and 2
3. 6 and 2
4. 6 and 1

Correct answer is (a)

1. Which of the following are valid Java statements?
2. i = i;
3. //y = 5; -
4. x= 10
5. I only
6. II and III only
7. III only
8. I and II only

Correct answer is (a)

1. Which of the following are primitive Java types?
2. int
3. Integer
4. Double
5. I only
6. I and II only
7. 1/ II and III only
8. II and III only Correct answer is (a)

5・Whkh of the following is not a

valid Java identifier?

1. myName
2. money\_bag
3. value4
4. 2square Correct answer is (d)
5. A Java Virtual Machine (JVM) Is
6. hardware that interprets Java bytecode
7. software that interprets Java bytecode
8. a decompiler that creates Java source code from Java bytecode
9. a compiler that generates Java bytecode

Correct answer is (b)

1. Consider a Java for-loop with the following form.

for (initialization; loopGuard; update)

loopBody

Among the three placeholders, initialization, loopGuard, and update, which are optional in a legal Java for-loop?

1. update
2. None
3. initialization
4. All



Correct answer is

*S.Conslder* the following Java program segment for (int i=0; i<3; i++) { for (int j=0; j<2; j++)(

*continue;*

*}*

System.out,print("i="+ i +"/ j="+j + ";");

}

*Which of the following is* the complete output when the program segment Is executed?

1. i=0, j=0; 1=1 J=l； i=2J=2;
2. i=0, J=l; i=l,戶0； [=2, j=o； [=2, j=l；
3. 1=0, J=l； 1=1, J=。；

Correct answer is (c)

]te5?

1. What is the value of product when the following

-int i = 3;

int product = 1;

while (i != 0) {

product = product \* i;

i = i -1;

}

1. 1
2. 6
3. 3
4. 0

Correct answer is (b)

1. Which of the following Java while-loops is (are) infinite?
2. while (true) I = 0;
3. while (false) i = 1;
4. while (Ifalse) i = 0;
5. III only
6. I only
7. \, II, and Hi
8. I and HI only

Correct answer is (d)

11-ln Java, for primitives, the assignment operator is the symbol

and the equality

operator is the symbol .

1. 司 equals!)
2. ==,=
3. =,==
4. ：=,=

Correct answer is (c)

12.ln Java, the operator V can be used for which of th.，n .

1. Addition of two integers ""wing purposes?
2. Concatenation of two strings

IILAddition of two floating point variables

(a) \, II. and III

1. II and III only
2. I and III only
3. I only

13・What is the value of x at the end of

g = 2 + 3 \* (8 % 3); eXeCUtl°n °f 虹 following line of Java code?

1. 2
2. 10
3. l
4. 8

Correct answer is (d)

14.Assume that isRaming, haveUmbrella, haveCoat, and shortTrip have been declared as type boolean and cons.der the following java program segment. isRaining = true;

haveUmbrella = false;

boolean takeBus = isRalning && !((haveUmbrella && haveCoat) 11 shortTrip);

At the end of execution of the program segment, the value of variable takeBus Is

1. true
2. dependent on the value of shortTrip
3. false
4. dependent on the value of haveCoat Correct answer is (b)

15Jn Java, the scope of a parameter of a method contains the scope of which of the following?

1. Local variables of the method
2. Class variables of the method
3. Instance variables of the method
4. Global variables of the method

Correct answer is (a)

16,Legal Java statements include which of the following?

String greeting = new StringO；

String greeting = StringO;

String greeting = null;

1. land III only
2. I only
3. II and III only
4. I, II, and 山

Correct answer is (a)

”.Reusable collection classes are included in which of the following Java packages?

1. java.net
2. java.io
3. java.util
4. Java.text

which of the following is a method that

18.Consider a Java object v of the class java.util.Vec °r.

can be used to add a new element to v?

1. insert
2. set
3. add
4. append

Correct answer is (c)

. statements. -

19.ln Java, non-sequential execution of code is achieve V us

1. concurrent
2. control
3. branching
4. ordering

Correct answer is (b)

ZO.Which of the following Java statements assigns the bigger of x and y to the varia

I.if (x > y) max = x; else max = Y；

ILif (y - x <= 0) max = x; else max = y； lll.max = x; if (x < y) max = y; 』\*勺■洛■，曾

1. I, II and III
2. I only
3. III only
4. I and II only

Correct answer is (a)

21.1n Java, which of the following values can be assigned to a boolean variable?

l.-l

n.o

111.2

1. I only
2. II and III only
3. I and II only
4. None

Correct answer is (d)

1. The type of the number 2.0 in Java can be
2. Panel
3. int
4. double
5. boolean

Correct answer Is (c)

1. The behavior components of a Java class

are called

1. methods
2. keywords
3. data
4. objects

Correct answer is (a)

1. int sum = 0;

int count = 18;

int i = 1;

for (i = 0;i<count;i = i + 2)

sum = sum + j；

What does the above loop do?

厲囂::;;L °f ambers from 0 through count

普 coZ h6 SUm °f 听 numbers from 0 through count-1

I" \* 听 of the odd numbers from 0 through count-1 (d) It computes the sum of the odd numbers from 0 through count Correct answer is (b)

25. How many times will this loop execute?

int y= 1;

int i; ”

for (i = 10; i < 0; i = i -1)

y = i + 2;

1. 9
2. ll
3. 10
4. 0 The loop test is false because i is not less than 0 Correct answer is (d)

26 Assume you are given a method with a specification double numbers(); that supplies you with numbers from the user's input. You need to find the first Input number from user input that Is smaller than 0.5 and put it in the variable x. Which of the following can be used for that purpose?

1. double x = numbers。; while (x <= 0.5) x = numbersf);
2. double x = 0.1; while (x >= °-5)x = "貰突：血炒())，
3. doubfe x; for(x = numbers。; x x °，x - '
4. I, II and
5. I only
6. II and III only
7. III only

Correct answer is (d)

-c will the folding loop execute? 27.How many times will" boolean flag = false;

int count - 0;

while (flag = true) {

if (count <= 10)

count = count + 1；

else

flag = false;

}

1. infinitely many
2. 0
3. 9
4. 10

Correct answer is (a)

1. What is the value of variable x at the end of the execution of the following Java statement?

int x = 1 + 5%2/2;

1. l
2. 0
3. 2
4. 3

Correct answer is (a)

1. The following code segment is intended to sum together all of the even numbers in the range

1 through 40 and to store the final result in the variable sum.

int sum = 0;

for (int j = 1; j < 40; j+=2)

sum = sum + j;

Which of the following is an error (are errors) in the code segment that will prevent the intended result?

LThe loop counter is not initialized correctly.

Il.The loop increments by the wrong amount.

IILThe loop guard causes the loop to terminate at the wrong place.

1. None
2. I and III
3. II and III
4. I only

Correct answer is (b)



30. Which of the following is not a

oolean operator in Java?

1. %
2. I
3. ||
4. &&

Correct answer is (a) 3LThe scope of an identifier is the

1. area of a program where that identifier can be used
2. number of times in the program the identifier was used
3. list of classes that can use the identifier
4. list of methods that can use the identifier Correct answer is (a)

32. Consider a Java method printDouble that takes one parameter of type double. If x is a variable of type lnt# correct ways of calling printDouble include which of the following? LprintDouble(x); ，宀3

ll.printDoublef (double) x);

IILprlntDouble(x.double);

1. b II, and III
2. II only
3. I only
4. I and II only

Correct answer is (d) 盘\*khm— q j j ■ \*

33-The value of the largest index of an instance of class java.utiLVector is always the size of the vector. *三*

1. one greater than
2. equal to
3. ha If of
4. one less than

Correct answer is (d) 34.Consider the following Java program segment

String a = ”A“； '

String b = ”B”； 弋

String c = "C";

. -

String d = ”D”；

Vector v = new Vector});

v.add(a); “，\* ；：

v.add(b);

v.add(c);

v.add(d); ■ ■了 " 轿

At the end of execution of the program segment, what value will be returned by v.elementAt(l)?

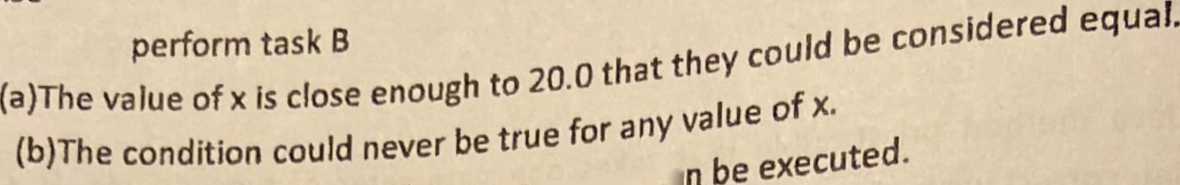
1. "D“ f、蚯
2. MB"
3. ” C”
4. nA"

Correct answer is (b)

35.A programmer claims that, in the following code fragment, task A will never be performed. Which of the following supports the programmer's claim?

double x = 19.9999;

if (x >= 20.0 && x <= 0.0)



perform task A

else

1. Only one branch of an if-e!se-statement ca
2. Any value of x would make the condition tru

Correct answer is (b)

be the type of the *variable* x in order to make

the assignment valid?

inty = 2;

x = (double) y;

1. Integer
2. double
3. int
4. Undefined

Correct answer *is* (b)

37.Which of the following are dictated *by a* variable's type? l-the amount of space in memory the variable will occupy ILthe *operations in which it can* be used

IILthe naming convention for the variable's *identifier*

1. II only
2. I and III
3. I and II only
4. I, II, and III

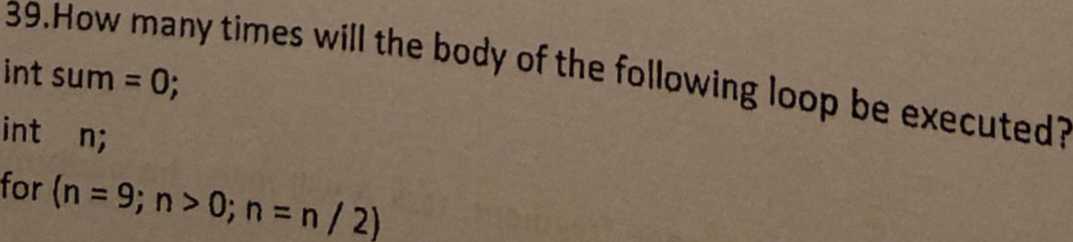
Correct answer is (c)

38-which of the following Is (are) true about Java?

Uava is portable.

IlJava is object-oriented.

1. *I only*
2. I and II
3. II only
4. None



sum = sum + n；

1. once
2. twice
3. four times
4. three times

Correct answer is

(c)

1. int i = 1, sum = o； while (i < 3)( int j = 0; while (j<2)( sum = sum + j； j=J + l;

}

i = i + 1;

}

What is the value of sum after the loop?

1. 4
2. 6
3. 2
4. 0

Correct answer is (c)

1. What is output when the following Java statement is executed? System.out.println('5%-2);
2. l
3. 0
4. -l
5. 2

Correct answer is (c) 42・What does the following expression evaluate to?

2\*4-3 + 5/2.0

1. 5.0
2. *5*
3. 7.5
4. *7*

*Correct answer is (c)*

oolean expression.

*43.Consider the following*

*I(l(a&&b))*

*For which* of *the* following values *of* a and b, respectively, will the expression evaluate to true?

1. false, false
2. false, true
3. true, true
4. true, false Correct answer is (c) 44.WhIch of the following kinds of scope

do local variables

in Java?

1. Block
2. Class
3. Local
4. Method

Correct answer is (a)

45.The amount of memory used to store *a*

variable depends

on

1. the type of the variable
2. the number of times the variable is accessed
3. the scope of the variable
4. whether the variable is declared in a class

that extends class Applet

Correct answer is (a)

46.Which of the following is a instance of class java.util.Vector?

method invocation that

retrieves the first element from an

(a) read⑴

(b) elementAt(O)

1. read(O)
2. elementAt(l) Correct answer is (b)

47.Consider a Java object v *of* the class java.util.Vector. Which of the following is a method that can be used to add a new element to v?

1. insert
2. append
3. set
4. add

Correct answer is (d)

48.WhH of the following Java statements assigns the bigger of x and y to the variable max.

1. if (x > y) max = x; else max = y;
2. if (y-x<= 0) max = x; else max = y；

IILmax = x; if (x < y) max = y;

1. I and II only
2. I only
3. III only
4. \, II and III

Correct answer is (d)

S2

當爲鴛；5时"5財 of code is achieved by using一statements.

1. branching
2. control
3. ordering

Correct answer is (c)

50」n Java, the data type of a variable determines which of the following? i.Valld operators

II.Range of values

1. None
2. I and II
3. II only
4. I only

Correct answer is (b)

1. Which of the following data types is a Java primitive type?
2. boolean
3. class
4. void
5. applet

Correct answer is (a)

1. What value will be output when the following program segment is executed? int k, sum = 0; . q 七汪紀.g

for(k = 0;k<=12;k=k + 2);

sum = sum + k;

System-out.print(sum);

1. 14
2. 30
3. 42
4. 12

Correct answer is (a)

53.Which of the following Boolean expressions true, regardless of the value of I?

involving the int variable I will always evaluate to

(i < 10) 1= (i >= 10) (i == 0) == (!(i 1= 0))

O<0)||(i>0)

1. I and II only
2. I only
3. II only

何)I, II, and III

Correct answer is (a)

54.In the class defined below class MyClass {

int age = 19;

void myMethod()

int counter;

}

}

1. both age and counter are instance variables triable
2. age is a local variable and counter is an instance va
3. both age and counter are local variables
4. age is an instance variable and counter is a local var

Correct answer is (d)

55.In Java, the return type of the method elementAt of the class java.util.

1. String
2. identical to the class of the object that was inserted into the Vector
3. int
4. Object

Correct answer is (d)

1. Which of the following is a code statement that allows a Java program to use methods of a pre-built library class?
2. extends java/awt/\*;
3. extends java.applet.Applet;
4. import java/applet/Applet;
5. import java.awt\*;

Correct answer is (d)

1. The term Java Virtual Machine refers to
2. a hardware extension needed to run Java
3. an interpreter of Java bytecode
4. a compiler of Java source code
5. a household appliance operated by Java (usually a smart toaster) Correct answer is (b)

58.Consider the following outline of a code segment that includes a for-loop with a blank, int total = 0;

for (int i= 10; ; i-)

total = total + i;

System.out.print(total);

Which of the following expressions should be used to fill in ui ，

output when the resulting code segment is executed? 时加‘ ‘旭 va.ue 49 will be

1. l<3
2. i>=3
3. i == 3
4. i > 3
5. What is the value of the variable I at the end of execution of the following Java program segment?

Correct

answer Is (d)

int i = 1;

while (i < 3) {

i = i\*2;

(8)4

1. l
2. 2
3. 3

Correct answer is (a)

1. Consider the following code fragment int m = 3;

int n = m / 2;

What is the value of n?

1. l
2. 2
3. 1.5
4. *1.0*

Correct answer is (a)

61Jn Java, the operator *V* can be used for which of the following purposes? *LAddition of two* integers

*^Concatenation of* two strings

*IILAddition of two floating* point variables

1. *II and* 111 only
2. *I only*
3. *I and III only*
4. *I, II, and III*

*Correct answer is (d)*

62.The region of a program where a variable can be referenced is known as the \_ 11

*variable.*

1. *conventional space*
2. storage space
3. *scope*
4. type

Correct answer is (c)

63.Suppose an object p is an instance of the following class public class IQ

public int getlQ(String s)

{

return 50;

)

}

Which of the following lines is a correct Java statement.

1. IQx = getlQ(,,chuckn);
2. String s = IQ.getlQ(p);
3. getlQ.p("bobn);
4. int c = p.getlQ("aleks");

Correct answer is (d) 64.The type of the number 2.0 in Java can be

1. Panel
2. boolean
3. int
4. double

Correct answer is (d) 65.An object is an instance of a

1. function
2. class
3. package
4. method

Correct answer is (b)

66. mt I, j；

for (i = 0; i < 3; i = i + 1) for (j = 0; j < i; j = j + 1){ System.out.println(H" + j);

)

How many lines of output will be produced?

1. 9
2. 6
3. 0
4. 3

Correct answer is (d) 67」n Java, the expression -7 % 3 evaluates to

1. 2
2. -l
3. l
4. -2

Correct answer is (b)

68,lnwhich of thefollowing Java statements

are the variables *a,* b, *ct*

and d declared?

1. int a, b, *c,* d;
2. int a“d;
3. int a-d;
4. int a, int b, int c, int d; Correct answer is (a)
5. The Java code that is typed by a programmer before compilation is called
6. virtual code
7. source code
8. bytecode
9. machine code

Correct answer is (b)

1. Consider the following code segment

*for* (int j = 0; j < 10; j++)

for (int k = 10; k a 0; k・・) System.out.print(,,Hello,');

The code segment shows an example of loops.

1. infinite
2. nested
3. opposite
4. sequential Correct answer is (b)
5. How many times will the following be executed?

int i =。；

while (I > 5 11 i < 5) { System, out. printing + T)；

}

1. 5
2. 4
3. 6
4. infinitely many Correct answeris *(d)*

72.What will be output upon execution of the following Java statement? System.out.println((int)(3.6%1.5\*10));

1. 10
2. 9
3. 6

Correct answer is (d)

1. Consider the following Boolean expression. ;

!(a&&b) must have the same value as the

For any given values of a and b, which of the follow】'

expression above?

1. !(a||b)
2. (a||b)
3. (!a)&&(!b)
4. (!a)||(lb)

Correct answer is (d)

1. Which of the following data types is a Java primitive type?
2. Integer
3. int
4. Object
5. real

Correct answer is (b)

1. Whlch words in the following line of code are Java keywords? public void paint(Graphics g)
2. public, void； paint
3. public, Graphics
4. public, void
5. void, Graphics

Correct answer is (c)

76,Assume that variable n has been declared to be of type int, assume that n has a positive value, and considerthe following Java program segment int s = 0;

for (int i = n; i > 0; i = i -1)

The value of s at the end of any execution

1. odd integers from 1 through n

Of the program segment is the sum of the

1. integers from 1 through n -1
2. integers from 1 through n
3. even integers from 1 through n

Correct answer is (c) 77.Consider the following Java code fragmentpublic class BigBox{ public int xHeight; Public int yHeighf

//... ，

}

The variables xHeight

(a) parameter

and yHeight are variables.

1. instance
2. global
3. local

Correct answer is (b)

78Jnthe return type of the method elementAt of the class java.util.Vector is

1. String
2. int
3. identical to the class of the object that was inserted into the Vector
4. Object

Correct answer is (d)

79」n *Java,* the range of values of a variable is determined by the

1. scope of the variable
2. Java compiler
3. *data* type of the variable
4. *Java* interpreter

*Correct* answer is *(c)*

*80.* Which *of the* following statements best describes objects in Java?

1. An object is everything included into the program with the import command.
2. An object *is a* data-structure equipped with methods for manipulating that data.
3. *An* object is a collection of methods that produce graphical elements in the applet or *application* window, or compute and return values.
4. An object *is* a set of classes that share a common structure and a common behavior. *Correct answer is (b)*

81. How many asterisks (\*) will be output when the following code segment is executed? for (int k = 30; k <= 5; k-・)

System.out.print("\*")；

(3)1

1. 0
2. 25
3. 26

Correct answer is (b)

32. what does the foUowing loop compute, a pos^ve even integer.

int i = 1;

int sum = O;

while (i <= n) (

if (i%2 == 0)

sum = sum + i; |

i = i + 1;

1. Computes the sum of the even integers from 1 through n
2. Computes the sum of the odd integers from 1 through n
3. Computes the sum of the odd integers from 1 through n.
4. Computes the sum of the even integers from 1 through n.

Correct answer is (d)

83.Instance variables in a Java class are declared by

1. including them as formal arguments to class methods
2. using them in assignment statements , ・
3. including a line like ”int counter;1' in a class definition outside of any met *o* e in
4. including a line like -declare counter int;” in a class definition outside of any method definitions

Correct answer is (c)

84.What is the value of x after execution of the following Java code fragment?

Untx = 4;

ll.x = 3;

1. 4
2. Undefined
3. 2
4. 3

Correct answer is (d)

1. Which of the following methods can be used to determine the number of elements contained in an instance of class java.util.Vector?
2. contains
3. size
4. add
5. capacity

Correct answer is (b)

1. Which of the following Java statements correctly declares and instantiates a Vector v?
2. v = new Vector();
3. Vector v = Vector();
4. Vector v = new Vector(v);
5. Vector v = new Vector();

87.In Java, non-sequential execution of code is achieved by using statements.

1. concurrent
2. ordering
3. branching
4. control

Correct answer is (d)

88Java provides eight types for storing and using simple data: byte, short, int, long, float, double, char, and boolean. Which of these types are used to store the logical values true and false?

1. byte
2. short
3. boolean
4. char

Correct answer is (c)

1. The behavior components of a Java class are called
2. methods
3. keywords 河；
4. objects
5. data , /『混

Correct answer is (a) L ，圭王 土

1. Each Java *program* is made up of class.
2. at most one
3. a constructor
4. exactly one
5. at least one

*Correct* answer is (d)

*91. int i = 1,* sum =0; while *(i < 3)(*

*int j =* 0;l

*while (j<2){ sum* = sum + j;

I )

i = i + 1;

}

What *is* the *value of sum* after the loop?

1. 2
2. 4
3. 6
4. *0*

Correct answer is (a)

that objects can be

..t uqed to ensure

92.In Java, which of the following strategies should successfully retrieved from a Vector?

•.Only references to objects of one class should be added to a Vector 巾 t^e vector.

1. Cast objects returned by method elementAttothe class of the *o* je
2. When processing elements in a Vector, always traverse the entire Ve
3. I, II, and III
4. II only
5. I and II only
6. II and ill only Correct answer is (c)
7. What is the output of the following loop? Assume the method print prints its arg the screen.

int \, J;

for (i = 1; i <= 3; i = i + 1)

for (j = 0; j < 3; j = j + 1)

System.out.print(i \* j + 11 “)；

1. 011024039
2. 123246369
3. 012024036
4. 000123249

Correct answer is (c)

1. Valid Java identifiers include which of the following? L\_\_$4dollar
2. $\_4dollar
3. 4 dollar
4. None
5. III only
6. \, II, and III
7. I and II only

Correct answer is (d)

1. The purpose of the interpreter called java in the JDK is to
2. produce Java .class files
3. execute Java .class files
4. compile Java source code
5. edit Java source code

Correct answer is (b)

1. Legal Java statements include which of the following?

I-String greeting = new String();

ILString greeting = String()； Ill.String greeting = null；

1. I, II, and III
2. I and III only
3. II and III only
4. I only

Correct answer is (b)

Quiz 7

ass A is a subclass of class B, which of the following statements is (are) true? LAII public data and methods of class B are available to class A. II.AII public data and methods of class A are available to class B.

1. II only
2. None
3. I only
4. I and II

Correct answer is (c)

2.If the following line of code is the beginning of a class definition, then class is being defined, and it is a of class • public class Game extends Applet

1. Applet, superclass, Game
2. Applet, subclass, Game
3. Game, superclass, Applet
4. Game, subclass, Applet

Correct answer is (d)

1. Which of the following kinds of relationships between classes does inheritance describe?
2. uses-a
3. is-a-kind-of
4. produces-a
5. has-a

Correct answer is (b)

1. consider the following Java program fragment’ import java.applet.Applet;

public class Hello extends Applet (

The fragment indicates that

(a) Hello is an instance of Applet

(b) Hello is a subclass of Applet

1. Applet is a subclass of Hello
2. Applet is an Instance of Hello

Correct answer is (b)

1. Which of the following is true concerning the following example class definition? public class Hello extends Applet {…

}

l-Hello is a superclass of Applet

ILHello inherits from Applet

Ill-Hello is a subclass of Applet

1. II only
2. II and III only
3. I and II only
4. III only

Correct answer is (b)

.

1. Consider the following Java code fragment where B is a Java class.

Public class A extends B (}

Which of the following is indicated by the code fragment?

1. Class A must also extend class Applet.
2. Class B must also extend at least one other class.
3. Class B is a subclass of class A. '
4. Class A is a subclass of class *B.*

Correct answer is (d)

1. Consider a Java program that contains two classes, Programmer and Person.

The class Programmer is a subclass of the class Person, and both classes define a method sleep. Which of the following statements will be true about the program?

1. The method sleep of Programmer will override that of Person when the program is executed.
2. When the method sleep of Programmer is called, the method sleep of Person will be called first.
3. The program will not compile.
4. The method sleep of Person will override that of Programmer when the program is executed.

Correct answer is (a)

1. Which of the following indicates that class Dog is a subclass of class Animal?
2. public class Dog imports Animal
3. public class Animal imports Dog
4. public class Dog extends Animal
5. public class Animal extends Dog

Correct answer is (c)

9- Which of the following Java keywords can be used to invoke a superclass constructor for the class In which it appears?

1. this
2. extends
3. protected
4. super

Correct answer is (d)

1. Consider the folio class A {)

wing definition of

a Java class.

Based on this definition,

1. Null '

the superclass of the class A is

1. A
2. Object
3. String

Correct answer is (c)

1. Consider the following Java class definition.

class A extends B {}

According to this definition, which of the following statements is (are) true?

1. A is a subclass of B.
2. B is a superclass of A.
3. None
4. I and II
5. II only
6. I only

Correct answer is (b)

1. In the following program segment, the call superflen.wid) invokes the constructor for which class? j

public class CustomWindow extends MyWindow Implements ActionListener

{

public CustomWindow(int len； int wid, Font ft)

*supermen,* wid);

}

}

1. *MyWindow*
2. *CustomWindow*
3. *ActionListener*
4. *Font*

*Correct answer is (a)*

*13. In Java,* the access *modifier* protected causes a variable to be

1. *accessible to subclasses of* its own class
2. *inaccessible by all classes* other than its own class
3. inaccessible to subclasses of its own class
4. accessible by every class in a program Correct answer is (a)

