Final Assessment : Java. Max marks: 50

Duration: 90 minutes.

1. Which of the following cannot use access specifiers.

A class b method c instance variables

d local variables

2 byte b=128; (select the correct statements)

A The above statement gives compilation error.

B Works fine when type casted.

C Instead of byte int can be used.

D All the above

3 . Given the following,

public class Test {

public static void main(String [] args) {

signed int x = 10;

for (int y=0; y<5; y++, x--)

System.out.print(" " + x);

}

}

what is the result? (Choose one.)

A. 10 9 8 7 6

B. 9 8 7 6 5

C. Compilation fails

D. An exception is thrown at runtime

4

What is the numerical range of a char? (Choose one.)

A. –128 to 127

B. –(2 ^ 15) to (2 ^ 15) - 1

C. 0 to 32767

D. Platform dependent

E. 0 to 65535

5

Which three are legal array declarations? (Choose three.)

A. int [] myScores [];

B. char [] myChars;

C. int [6] myScores;

D. Dog myDogs [];

E. Dog myDogs [7];

6

What is the most restrictive access modifier that will allow members of one class to have access to members of another class in the same package?

A. public

B. abstract

C. protected

D. synchronized

E. default access

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Given a method in a class, what access modifier do you use to restrict access to

that method to only the other members of the same class?

A. final

B. static

C. private

D. protected

E. volatile

F. default access

8

Which of the following variables do not have default values:

A instance

B static

C local

D None

9

**Guess the output:**

class Demo{

int x;

public static void main(String abc[])

{

System.out.println(x);

}

}

A 0

B 1

C Compile time error

D Runtime error

10

Which of the following are not true regarding abstract classes.

A Abstract class can have concrete methods.

B Abstract class cannot be instantiated.

C References cannot be created for abstract classes.

D Abstract class can be used to enforce overriding.

11

. Who maintains the life cycle of the servlet?

A) -The client

B) Servlet container

C) Servlet Engine

D) None

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. ServletContext is

1. an Interface
2. can be available by calling getServletContext().
3. A container which is used to store an object so that it is available for session only.
4. A container which is used to store an object so that it is available for request only

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Class A

{

void m1(String s)

{

s.subString(2,4);

}

public static void main(String abc[])

{

String s=”computers”; m1(s); System.out.print(s);

}

}

What is the output?

14

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ modifier is used to prevent Overriding.

A static

B final

C volatile

B transient.

15

Given the following,

1. class B extends A {

2. int getID() {

3. return id;

4. }

5. }

6. class C {

7. public int name;

8. }

9. class A {

10. C c = new C();

11. public int id;

12. }

which two are true about instances of the classes listed above? (Choose two.)

A. A is-a B

B. C is-a A

C. A has-a C

D. B has-a A

E. B has-a C

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Given the following,

class A {

public void baz() {

System.out.println("A");

}

}

public class B extends A {

public static void main(String [] args) {

A a = new B();

a.baz();

}

public void baz() {

System.out.println("B");

}

}

what is the result?

A. A

B. B

C. Compilation fails.

D. An exception is thrown at runtime.

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Given the following,

class Foo {

String doStuff(int x) { return "hello"; }

}

which method would not be legal in a subclass of Foo?

A. String doStuff(int x) { return "hello"; }

B. int doStuff(int x) { return 42; }

C. public String doStuff(int x) { return "Hello"; }

D. protected String doStuff(int x) { return "Hello"; }

E. String doStuff(String s) { return "Hello"; }

F. int doStuff(String s) { return 42; }

18

What happens when constructor is made as private.

A Class cannot be instantiated.

B Gives Compilation error.

C Objects can be created within the same class where constructor is defined.

D None of the above.

19

Which of the following implementation classes store key,value pairs.

A ArrayList

B Vector

C HashSet

D HashMap

20

Which collection class allows you to grow or shrink its size and provides indexed access to its

elements, but whose methods are not synchronized?

A. java.util.HashSet

B. java.util.LinkedHashSet

C. java.util.List

D. java.util.ArrayList

E. java.util.Vector

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In the code:

ArrayList<**int**> al=**new** ArrayList<**int**>();

al.add(12);

System.out.println(12);

a) prints 12

b) compile time error

c) when <int> is removed compiles fine

d) b and c are right

22

Given the following,

1. class MyThread extends Thread {

2.

3. public static void main(String [] args) {

4. MyThread t = new MyThread();

5. t.start();

6. System.out.print("one. ");

7. t.start();

8. System.out.print("two. ");

9. }

10.

11. public void run() {

12. System.out.print("Thread ");

13. }

14. }

what is the result of this code?

A. Compilation fails

B. An exception occurs at runtime.

C. Thread one. Thread two.

D. The output cannot be determined.

23

Void m1()

{

//Statement 1

//Statement 2

}

Which of the following are valid ways of synchronizing the above code.

A make m1 as synchronized.

B enclose statements within synchronized(this){ }.

C enclose statements within synchronized(){ }.

D All the above

24

Which of the following are marker interfaces.

A comparator

B comparable

C Serializable

D Runnable

25

JSP contains

<% x=10; %>

<%=x+10 %>

<%! int x; %>

The page displays

1. 10
2. 20
3. 0
4. Error

26

Implicit exception object is available to

1. All JSP pages
2. Only JSP page which has isErrorPage="true" in the page directive
3. Only JSP page which has errorPage=“true” in the page directive

None of the above

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<%@ page language=“Java” session=“false”>

The above line

1. Invalidates the session
2. Makes implicit session object unavailable to the page
3. Makes the page devoid of session
4. Results in an error in the page

28

JSP code generates a class which extends directly from

1. HttpServlet
2. HttpJspPage
3. JspPage
4. Servlet

29

A HTML form has <input type=“text” name=“login”>

Which of the following gets the login value?

1. pageScope.login
2. initParam.login
3. form.color
4. param.login

30

doStartTag () of IterationTag can have which of the following return values?

1. SKIP\_BODY
2. SKIP\_PAGE
3. EVAL\_BODY\_INCLUDE
4. EVAL\_PAGE

31

A bean can be created in a JSP using

1. <jsp:useBean>
2. <jsp:usebean>
3. <jsp:bean>
4. <jsp:class>

32

10

If in a servlet I have

String names[]={“sam”,”smith”,”Johnson”,”james”};

request.setAttribute(“names”,names);

through requestdispatcher I am moving to Jsp1.jsp.then inside

what would be output for the following statements inside Jsp1.jsp

${names[1]}

${names[“1”]}

A sam

B sam smith

C sam sam

D smith smith

33

Which of these are EL implicit objects

A initparam

B cookie

C request

D session

34

In jstl.

<c:forEach \_\_\_\_\_\_\_\_\_=”x” \_\_\_\_\_\_\_\_=”${myList}”>

${x}

</c:forEach>

What should come in place of blanks.

A var and list

B varStatus and items

C var and items

D counter and items

35

**<action name=“Welcome“ class=“s.Welcome”>**

Which method of **Welcome** will be called ?

1. input()
2. execute()
3. validate()

d populate()

36

In struts 2.0 An Action class

1. must implement Action interface
2. must extend from ActionSupport class
3. Must do both A and B
4. None of the above

37

How can you obtain the HttpSession attribute “cart” in Action class?

1. This is not possible
2. ActionContext.*getContext().get("cart“ , “session”) ;*
3. ActionContext.getParameters().*getSession().get("cart");*
4. ActionContext.*getContext().getSession().get("cart");*

38

Which are the legal values for <generator-class> in a mapping file if primary key is autogenerated

A native

B assigned

C foriegn

D none

39

Which of the following are valid values for **hibernate.hbm2ddl.auto**

A update

B validate

C create

D create-drop

E all

40

hibernate.connection.autocommit is false by default.

True

False

41 Descriptive Questions. (2 marks each)

1. What are the differences between RequestDispatcher and sendRedirect while navigating from a servlet.
2. What are the rules for MethodOverriding.
3. Which are the methods of Object Class.
4. What are the features of Struts2 framework.
5. Write a note on collections framework.