1) Given that a static method disp() in the class Shape.

Shape is an independent class which is not a sub class of any class or interface.

Which block of code will succeed in starting a new thread that will call the disp();

Select the one Correct answer.

1. Runnable rn=new Runnable() //Anonymous class

{

public void run() {

Shape.disp(); }

};

Thread t=new Thread(rn);

t.start();

1. Thread t=new Thread() //Anonymous class

{

public void start()

{

Shape.disp();

}

};

t.start();

1. Runnable rn=new Runnable() //Anonymous class

{

public void run() {

Shape.disp(); }

};

rn.start();

1. Thread t=new Thread(new Shape());

t.start();

e) Runnable rn=new Runnable() //Anonymous class

{

public void run() {

Shape.disp(); }

};

rn.run();

2) Which statement is true about the compilation and execution of the following program with assertions enabled ?

public class test5

{

String s1;

String s2="hello";

String s3;

test5()

{

s1="hello";

s3="hello";

}

void disp()

{

String s4="hello";

String s5=new String("hello");

assert(s1.equals(s2)); // (1)

assert(s2.equals(s3)); // (2)

assert(s3==s4); // (3)

assert(s4==s5); // (4)

}

public static void main(String args[])

{

new test5().disp();

}

}

Select one correct answer

1. The compilation will fail
2. The assertion on line marked (1) will fail
3. The assertion on line marked (2) will fail
4. The assertion on line marked (3) will fail
5. The assertion on line marked (4) will fail
6. The program will run without any erros.
7. Under which circumstances will a thread die ?

Select the one correct answer

1. The call to start() method of the Thread object returns.
2. The run() method that the thread is executing ends.
3. The suspend() method is called on the Thread object
4. The wait() method is called on the Thread object.
5. When creating a class that associates a set of keys with a set of values,which of these interfaces is most applicable ?

Select the one correct answer

* 1. Collection
  2. Set
  3. SortedSet
  4. Map

1. what will be the output ?

class base

{

int i;

base()

{

add(1);

}

void add(int v)

{

i+=v;

}

void print()

{

System.out.println(i);

}

}

class sub extends base

{

sub()

{

add(2);

}

void add(int v)

{

i+=v\*2;

}

}

public class test6

{

static void disp(base b)

{

b.add(8);

b.print();

}

public static void main(String args[])

{

disp(new base());

}

}

Select the one correct answer

a) 9 b) 18 c) 20 d) 21 e) 22

1. Which Collection implementation is suitable for maintaining an ordered sequence of objects,when objects are frequently inserted and removed from the middle of the sequence ?

Select the one correct answer

1. TreeMap
2. HashSet
3. Vector
4. LinkedList
5. ArrayList
6. Which statements can be inserted at the indicated position in the following code to make the program print 1 on the standard output when executed ?

public class test7

{

int a=1;

int b=1;

int c=1;

class inner

{

int get()

{

int c=3;

// Insert Here

return c;

}

}

test7()

{

inner i=new inner();

System.out.println(i.get());

}

public static void main(String args[])

{

new test7();

}

}

Select two correct answers

1. c=c;
2. c=b;
3. c=this.a;
4. c=this.b;
5. c=test7.this.a;
6. A monitor must extends either Thread class or implements Runnable interface a) false b) true
7. A method within a class can be accessible outside the package but only by the child classes of the class in which it is defined .How can we achieve this.

Select the one correct answer

* 1. Declare the method with the keyword “public”
  2. Declare the method with the keyword “protected”
  3. Do not declare the method with any modifiers.
  4. Declare the method with the keyword “private”
  5. Declare the method with the keyword “package”

1. which statements are true about the methods notify() and notifyAll() ?

Select the three correct answers.

1. An instance of the class Thread has a method named notify() that can be invoked.
2. A call to the method notify() will wake the thread that currently owns the lock the object.
3. The method notify() is synchronized
4. notify() or notifyAll() can be called only in synchronized block or method
5. The method notifyAll() is defined in class Thread
6. When there is more than one thread waiting to obtain the lock of an object,there is no way to be sure which thread will be notified by the notify() method.
7. what is the result of compiling and executing the following application

import java.awt.\*;

public class test9 extends Frame

{

Button b;

test9()

{

setSize(400,400);

add(b);

}

public static void main(String args[])

{

test9 t=new test9();

t.setVisible(true);

}

}

1. There is a compilation error because constructor is not public
2. Exception.
3. The program displays button occupying entire frame
4. The program displays empty frame
5. sleep() can release the lock on an object
6. true b) false