1. Which of the following is true?
   1. A program will terminate only when all user threads stop running.
   2. A program will terminate only when all daemon stop running.
   3. A daemon thread always runs at Thread.MIN\_PRIORITY.
   4. None of the above.

# ANS: A

1. Given the following Java code:
2. class B implements Runnable{
3. public void run() {} 3. }
4. class A{
5. public static void main(String[] args){
6. Thread my1 = new Thread();
7. Thread my2 = new Thread("B");
8. Thread my3 = new Thread(new B());
9. Thread my4 = new Thread("B", new B());

10. }

11. }

What is the result?

* 1. A compile-time error is generated at line6
  2. A compile-time error is generated at line7
  3. A compile-time error is generated at line8
  4. A compile-time error is generated at line9
  5. None of the above

# ANS: D

1. Given the following Java code:[5points]

1. class B extends Thread{

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

public String x;

B(String in) { x = in;

}

public void run() { for(int i=1; i<5; i++) {

System.out.println(x+”‐“+i);

}

}

}

class A {

public static void main(String[] args){ B obj1 = new B(“o”);

B obj2 = new B(“x”); obj1.setPriority(1); obj2.setPriority(10); obj1.start();

obj2.start();

}

}

Which of the following is true?

* 1. This program will go exception when compiling.
  2. Obj1 runs at Thread.MIN\_PRIORITY.
  3. Obj2 runs at Thread.MIN\_PRIORITY.
  4. The Thread.setDaemon method can change Thread.MIN\_PRIORITY.
  5. None of theabove.

# ANS: B

1. Given the following Java code:

1.

2.

3.

4.

5.

class A extends Thread{

private String i; public void run() {

i = “A”;

}

6.

7.

8.

9.

10.

11.

public static void main(String[ ] args){

A a = new A(); a.start(); System.out.print(a.i);

}

}

Which of the following are possible results of attempting to compile and run the program?

1. prints:A
2. prints:0
3. prints:null
4. prints:i
5. Compile‐time error

# ANS:C

1. Given the following Java code:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

public B extends Thread {

public void run() { System.out.print(“A”);

}

}

class A {

public static void main (String[] args){ B obj = new B();

obj.start() ;

obj.start() ;

}

}

What is the result of attempting to compile and run the program?

1. The program compile sand runs fine but prints nothing.
2. prints:A
3. Compiler error
4. An Illegal Thread State Exception is thrown at run‐time
5. None of the above

# ANS: C

1. Given the following Java code:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

public class Hello implements Runnable {

public void run () { System.out.print ( "running" );

}

public static void main ( String[] args ) { Thread t = new Thread ( new Hello()); t.run ();

* 1. un();
  2. tart();

}

}

What is the result?

1. Compilationfails
2. An exception is thrown atruntime
3. The code executes and prints"running"
4. The code executes and prints"runningrunning"
5. The code executes and prints"runningrunningrunning"

# ANS: E

1. Given the following Javacode:

12. class A extends Thread{

13.

14.

15.

16.

17.

18.

19.

20.

public void m1( ) {

System.out.print("A" ) ;

}

public void m2( ) {

synchronized(System.out){ try{

Thread.sleep(1000) ;

21.

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

33.

34.

35.

36.

37.

38. }

System.out.print("B") ;

}

catch(InterruptedException e) {}

}

}

public void run( ) {

this.m1( ) ;

this.m2( ) ;

}

public static void main(String args[ ]){ A obj1 = new A( );

obj1.start( ) ;

A obj2 = new A( ) ; obj2.start( ) ;

}

Which of the following are possible results of attempting to compile and run the program?

1. ABAB
2. BABA
3. AABB
4. BBAA
5. ABBA

# ANS: AC

1. Given the following Javacode:
2. class A implements Runnable{
3. boolean obj1\_ok =false;

3. A( ){

1. Thread obj1 = new Thread(this,“o”);
2. Thread obj2 = new Thread(this,“x”);

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

23.

24.

25.

26.

27.

28.

29.

30. }

obj2.start( );

obj1.start( );

}

public synchronized void my( ) {

if(Thread.currentThread( ).getName( ).equals(“x”)){ while( !obj1\_ok){

try {

System.out.print(“A”); wait( ) ;

} catch(InterruptedException e) { }

}

}

System.out.print(“B”); obj1\_ok = true ; notifyAll( ) ;

}

public void run( ) { my( ) ;

}

public static void main (String[ ] args) { A obj = new A( ) ;

}

Which of the following are possible results of attempting to compile and run the program?

1. ABA
2. BAB
3. AAB
4. BBA
5. ABB

# ANS: E