JAVA Programming Language Homework X: Total Review ID: Name:

1. Given the following Java code:

11.	public interface Status {
12.	/* insert code here */ int MY_VALUE = 10;
13.	}

Which three are valid on line 12? (Choose three)

A. final

- B. static
- C. native
- D. public
- E. private
- F. abstract
- G. protected

ANS:

2. Given the following Java code:

1.	public class ItemTest {
2.	private final int id;
3.	public ItemTest(int id) { this.id = id; }
4.	public void updateId(int newId) { id = newId; }
5.	
6.	<pre>public static void main(String[] args) {</pre>
7.	ItemTest fa = new ItemTest(42);
8.	fa.updateId(69);
9.	System.out.println(fa.id);
10.	}
11.	}

What is the result?

- A. Compilation fails
- B. An exception is thrown at runtime
- C. The attribute id in the Item object remains unchanged
- D. The attribute id in the Item object is modified to the new value
- E. A new Item object is created with the preferred value in the id attribute

ANS:

3. A programmer needs to create a logging method that can accept an arbitrary number of arguments. For example, it may be called in these ways:

logIt("log message1"); logIt("log message2", "log message3"); logIt("log message4", "log message5", "log message6");

Which declaration satisfies this requirement?

- A. public void logIt(String * msgs)
- B. public void logIt(String [] msgs)
- C. public void logIt(String... msgs)
- D. public void logIt(String msg1, String msg2, String msg3)

ANS:

4. Given the following Java code:

1.	class Converter {
2.	public static void main (String [] args) {
3.	Integer i = args[0] ;
4.	int j = 12 ;
5.	Sysem.out.println ("It is " + (j= =i) + " that j= = i . ") ;
6.	}
7.	}

What is the result when the programmer attempts to compile the code and run it with the command Java Converter 12 ?

A. It is true that j==i

B. It is false that j==i

C. An exception is thrown at runtime

D. Compilation fails because of an error in line 3

ANS:

5. Given the following Java code:

1.	public class Test {
2.	static public void main(String[] args) {
3.	for (int x = 1; x < args.length; x++) {
4.	System.out.print(args [x] + " ");
5.	}
6.	}
7.	}

If the command line invocation "java Test a b c", what is the result?

A. a b

B.bc

C. a b c

D. Compilation fails

E. An exception is thrown at runtime

ANS:

6. A unix user named Bob wants to replace his chess program with a new one, but he is not sure where the old one is installed. Bob is currently able to run a Java chess program starting from his home directly/home/bob using the command :

java – classpath /test:/home/bob/downloads/*.jar games.Chess Bob's CLASSPATH is set(at login time) to :

/usr /lib:/home/bob/classes:/opt/java/lib:/opt/java/lib/*.jar

What is a possible location for the Chess.class file?

- A. /test/Chess.class
- B. /home/bob/Chess.class
- C. /test/games/Chess.class
- D. /usr/lib/games/Chess.class
- E. /home/bob/games/Chess.class
- F. Inside jarfile /opt/java/lib/Games.jar(With a correct manifest)
- G. Inside harfile /home/bob/downlands/Games.jar(with a correct manifest)

ANS:

7. Given the following Java code:

1. enu	im Example { ONE, TWO, THREE }
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What is the result?

A. The expressions (ONE ==ONE) and ONE.equals(ONE) are both guaranteed to be true.

B. The expressions (ONE < TWO) is guaranteed to be true and ONE.compareTo(TWO) is guaranteed to be less than one.

C. The Example value cannot be used in a raw java.util.HashMap.;instead, the programmer must use a java.util.EnumMap.

D. The Example value can be used in a java.util.SortedSet, but the set will NOT be sorted because enumerated Type do not implement java.lang.Comparable.

ANS:

8. foo and bar public references available to many other threads, foo refers to a Thread and bar is an Objcet. The thread foo is currently executing bar.wait(). Form another thread, what provides the way to ensure that foo will stop executing wait()? (Choose two)

- A. foo.notify();
- B. bar.notify();
- C. foo.notifyAll();
- D. Thread.notify();
- E. bar.notifyAll();

ANS:

9. Given the following Java code:

1.	class MyThread extends Thread {
2.	public void run() {
3.	m1();
4.	}
5.	MyThread(String threadName){
6.	super(threadName);
7.	}
8.	public synchronzed void m1() {
9.	System.out.println(Thread.currentThread().getName());
10.	}
11.	<pre>public static void main(String[] args) {</pre>
12.	MyThread a = new MyThread("A");
13.	MyThread b = new MyThread("B");
14.	a.setPriority(Thread,MIN_PRIORITY);
15.	<pre>b.setPriority(Thread,MAX_PRIORITY);</pre>
16.	a.start();
17.	Thread.yield();
18.	b.start();
19.	}
20.	}

Which of the following statements regarding the following code is true?

- A. Thread B will get more CPU time than Thread A
- B. Thread will start running before Thread A
- C. If line 17 is removed, Thread B will get more CPU time than Thread A

D. If line 17 is removed, Thread B will start running before Thread A

E. None of the above

ANS:

10.	Given the following Java code:
TO .	Given the following Java coue.

1.	public class Threads1 {
2.	int $x = 0$;
3.	public class Runner implements Runnable {
4.	public void run () {
5.	int current = 0;
6.	for (int i = 0; i < 4; i++) {
7.	current = x;
8.	System.out.print(current + ", ");
9.	x = current + 2;
10.	}
11.	}
12.	}
13.	
14.	public static void main (String[] args) {
15.	new Threads1().go();
16.	}
17.	
18.	public void go() {
19.	Runnable r1 =new Runner ();
20.	new Thread(r1).start ();
21.	new Thread(r1).start ();
22.	}
23.	}
	 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.

Which two are possible results? (choose two)

A. 0,2,4,4,6,8,10,6,
B. 0,2,4,6,8,10,2,4,
C. 0,2,4,6,8,10,12,14
D. 0,0,2,2,4,4,6,6,8,8,10,10,12,12,14,14,
E. 0,2,4,6,8,10,12,14,0,2,4,6,8,10,12,14,