1. Given the following declaration, which expression returns the size of the array, assuming that the array reference has been properly initialized?

```
int[] array;
```

Select the one correct answer.

```
(a) array[].length()
```

- (b) array.length()
- (c) array[].length
- (d) array.length
- (e) array[].size()
- (f) array.size()
- (g) array[].size
- (h) array.size
- 2. Is it possible to create arrays of length zero?

Select the one correct answer.

- (a) Yes, you can create arrays of any type with length zero.
- (b) Yes, but only for primitive data types.
- (c) Yes, but only for arrays of reference types.
- (d) No, you cannot create zero-length arrays, but the main() method may be passed a zero-length array of Strings when no program arguments are specified.
- (e) No, it is not possible to create arrays of length zero in Java.
- 3. Which one of the following array declaration statements is not legal? Select the one correct answer.

```
(a) int []a[] = new int [4][4];
(b) int a[][] = new int [4][4];
(c) int a[][] = new int [][4];
(d) int []a[] = new int [4][];
(e) int [][]a = new int [4][4];
```

4. Which of these array declaration statements are not legal? Select the two correct answers.

```
(a) int[] i[] = { { 1, 2 }, { 1 }, { 1, 2, 3 } };
(b) int i[] = new int[2] {1, 2};
(c) int i[][] = new int[][] { {1, 2, 3}, {4, 5, 6} };
(d) int i[][] = { { 1, 2 }, new int[ 2 ] };
(e) int i[4] = { 1, 2, 3, 4 };
```

5. What would be the result of compiling and running the following program?

```
public class MyClass {
  public static void main(String[] args) {
    int size = 20;
    int[] arr = new int[ size ];

  for (int i = 0; i < size; ++i) {
     System.out.println(arr[i]);
   }
}</pre>
```

Select the one correct answer.

- (a) The code will not compile, because the array type int[] is incorrect.
- (b) The program will compile, but will throw an ArrayIndexOutOfBoundsException when run.
- (c) The program will compile and run without error, but will produce no output.
- (d) The program will compile and run without error, and will print the numbers 0 through 19.
- (e) The program will compile and run without error, and will print 0 twenty times.
- (f) The program will compile and run without error, and will print null twenty times.
- 6. What would be the result of compiling and running the following program?

```
public class DefaultValuesTest {
  int[] ia = new int[1];
  boolean b;
  int i;
  Object o;

public static void main(String[] args) {
    DefaultValuesTest instance = new DefaultValuesTest();
    instance.print();
  }

public void print() {
    System.out.println(ia[0] + " " + b + " " + i + " " + o);
  }
}
```

Select the one correct answer.

- (a) The program will fail to compile because of uninitialized variables.
- (b) The program will throw a java.lang.NullPointerException when run.
- (c) The program will print 0 false NaN null.
- (d) The program will print 0 false 0 null.
- (e) The program will print null 0 0 null.
- (f) The program will print null false 0 null.