**JAVA Test – Loops and arrays**

**Que 1: int a = 6;**

**int b = 12;**

**while(a<b){**

**System.out.println("In the loop");**

**a+=2;**

**b-=2;**

**}**

**How many times is the phrase "In the loop" printed?**

A. 1

**B. 2**

C. 3

D. 4

**Que 2: In Java, elements of an array are automatically initialized to some default value.What is the default value for the elements of an array of integers?**

**A. 0**

B. "0"

C. null

D. 1

E. '0'

**Que 3: You want to initialize all of the elements of a double array a to the same value equal to 1.5.**

**What could you write? Assume that the array has been correctly initialized**.

A.for(int i=1; i<a.length; i++) a[i] = 1.5;

B.for(int i=0; i<=a.length; i++) a[i] = 1.5;

C.for(int i=0; i<a.length; i++) a[i] = 1.5;

D.for(int i=0; i<a.length+1; i++) a[i] = 1.5;

E.for(int i=0; i<a.length-1; i++) a[i] = 1.5;

**Que 4: Which of the following while statements is equivalent to**

**do{**

**y=x+7;**

**x++;**

**}while(x<9);**

**A. y=x+7;**

**x++;**

**while(x<9)**

**{**

**y=x+7;**

**x++;**

**}**

B. while(x<9){

y=x+7;

x++;

}

y=x+7;

x++;

C. while(x<=9){

y=x+7;

x++;

}

D. A and B

E. A, B and C

**Que 5: Consider the code**

**int[] x = {5,6,7,8,9};**

**int[] y = x; //now y also refer to the same location**

**y[2] = 10;**

**What is the value of x[2]?**

A. 6

B. 7

**C. 10**

D. 8

E. 0

**Que 6. Consider the following piece of code:**

**int i;**

**for(i=0; i<10; i++){**

**/\* some code that doesn't modify i \*/**

**}**

**System.out.println("i="+i); /\* line A \*/**

**What is printed by the statement on line A?**

A. i=0

B. i=9

**C. i=10**

D. i=11

E. This piece of code doesn't compile since the scope of i is limited to the for loop

**Que 7: What is printed by the following code fragment?**

**int[] a = {0,1,2,3,4,5,6};**

**System.out.println(a.length);**

A. 5

B. 6

**C. 7**

D. 8

E. Can't tell. There is not enough information.

**Que 8: How would you declare and initialize an array, palette, of Color objects of size 6?**

A. Color palette = new Color[5];

B. Color palette[6];

C. Color[5] palette;

**D. Color[] palette = new Color[6];**

E. Color[] palette = new Color[5];

**Que 9. What will this code print?  
int arr[] = new int [5];  
System.out.print(arr);**  
a) 0  
b) value stored in arr[0].  
c) 00000  
**d) Class name@ hashcode in hexadecimal form**

**Que 10. What is the output of this program?**

**class array\_output {**

**public static void main(String args[]) {**

**int array\_variable [] = new int[10];**

**for (int i = 0; i < 10; ++i) {**

**array\_variable[i] = i;**

**System.*out*.print(array\_variable[i] + " ");**

**i++; }} }**

**a) 0 2 4 6 8**  
b) 1 3 5 7 9  
c) 0 1 2 3 4 5 6 7 8 9  
d) 1 2 3 4 5 6 7 8 9 10