1. What would be the output of the following code snippet? public class Main { public static void func(int x, int y) { System.out.println("xx"); public static void func(String x, String y) { System.out.println("yy"); } public static void main(String args[]) { func(10, 20); func('x', 'y'); } a. XXуу b. XXXXc. уу уу

- 2. Which of the following options is false about final?
- a. final methods cannot be overwritten
- b. final class cannot be inherited

d.

yy xx

- c. final attributes ca not change their value
- d. all options seem to be true about final
- 3. Look at the pseudo code snippet below and choose the false statement from the options?

```
public static int function(int[] arr) {
  int max = Integer.MIN_VALUE;;
  int data = Integer.MIN_VALUE;
  for (int i = 0; i < arr.length; i++) {
    if (arr[i] > max)
      max = arr[i];
  }
  for (int i = 0; i < arr.length; i++) {
    if (arr[i] > data && arr[i] < max)
      data = arr[i];
  }
  return data;
}</pre>
```

- a. The code is returning the largest value in an array
- b. The code is returning the least value in an array
- c. The code is returning the second largest value of in an array
- d. The code is returning the most repeated value in the array

```
4. What would be the output of the following code snippet?
public class Sample {
 public static Sample() {
  System.out.println("sample");
 public static Sample(int x) {
  System.out.println("sample x");
 public static void main(String[] args) {
  Sample object1 = new Sample();
  Sample object2 = new Sample(100);
}
}
a.
       sample
       sample x
b.
       sample x
       sample x
c.
       sample
       sample
d.
       error
5. which of the following is false?
a. abstract class can not be instantiated
b. abstract class can not have final methods
c. abstract class can have constructors
d. abstract can have both abstract & non abstract methods
6. What would be the output of following code snippet?
public class Main {
 public static void main(String args[]) {
  Map<String, Integer> stockPrice = new HashMap<>();
  stockPrice.put("yyy", 56);
  stockPrice.put("xxx", 117);
  System.out.println(stockPrice.get("yyy"));
```

```
System.out.println(stockPrice.get("xxx"));
  stockPrice.replace("yyy", 73);
  stockPrice.replace("xxx", 118, 120);
  System.out.println(stockPrice.get("yyy"));
  System.out.println(stockPrice.get("xxx"));
 }
}
a.
       56
       117
       73
       117
b.
       56
       117
       56
       117
c.
       56
       117
       73
       118
d.
       56
       117
       56
       118
7. Which of the following is true?
a. need outer class for instantiating inner class object
b. anonymous class can be abstract too
c. nested classes can also be created within methods
d. anonymous inner classes can not be created, only anonymous outer classes can be
       created
8. What is the complexity of adding an element to the heap.
a. O(log n)
b. O(h)
c. O(log n) & O(h)
d. O(n)
9. A file named file.txt has the following data:
A text file has the following content in different lines
south africa
india
china
brazil
russia
oman
What would be the output of following code snippet?
```

```
import java.io.*;
class Read {
 public static void main(String[] args) throws Exception {
  String path = "file.txt";
  BufferedReader br = new BufferedReader(new FileReader(path));
  String stra = br.readLine();
  while (stra != null) {
   System.out.println(stra);
   br.readLine();
   stra = br.readLine();
  }
}
}
       south africa
a.
       india
       china
       brazil
       russia
       oman
b.
       south africa
       china
       russia
       india
c.
       brazil
       oman
d.
       south africa
       south africa
       south africa
10. What would be the pre-order traversal if the post-order traversal of a binary tree is O P
QRST.
a. TQRSOP
b. TOQRPS
c. T Q O P S R
d. T Q O S P R
```