Name: Mayaank / Pd: 8

Answer each of the following questions.

```
1. Is the following code [ legal / illegal ]?
                                             Collection a = new Map();
2. Is the following code [/legal] /
                               illegal ]?
                                          Map b = new TreeMap();
3. Is the following code [legal / illegal]?
                                              Collection c = new TreeMap();
4. Is the following code [ legal ]/ illegal ]?
                                              Map d = new HashMap();
5. What method is used to put items into a Map?
                                                      . Put (E key, E value)
                                                         . get (E key)
6. What method is used to get values from a Map?
```

7. What is output by the code at right?

NUII

```
Map<String, Integer> mOne = new TreeMap<String, Integer>();
mOne.put("8",1);
mOne.put("5",2);
mOne.put("6",7);
out.println(mOne.get("8"));
out.println(mOne.get("6"));
out.println(mOne.get("3"));
```

8. What is output by the code at right?

10 null 20

```
Map<String, Integer> mTwo = new TreeMap<String, Integer>();
mTwo.put("8",10);
out.println(mTwo.put("8",12));
mTwo.put("8",15);
out.println(mTwo.put("5",18));
mTwo.put("5",20);
out.println(mTwo.put("5",23));
```

9. What is output by the code at right?

```
8=2
5:9
6=8,
2:12
```

```
Map<String, Integer> map = new TreeMap<String, Integer>();
map.put("8",6);
map.put("8",3);
map.put("8",2);
map.put("5",9);
map.put("6",8);
map.put("2",12);
out.println(map);
```

10. What is output by the code at right?

```
2 2=1
  4=1
  6=1,
```

```
Map<String, Integer> treeMap;
treeMap = new TreeMap<String, Integer>();
String[] list = {"4", "5", "8", "2", "8", "8", "6"};
for(String s : list)
   if(treeMap.get(s) == null)
      treeMap.put(s,1);
      treeMap.put(s, treeMap.get(s)+1);
out.println(treeMap);
```