# Part I

1. d - correct

2. T - correct

3. T - correct

4. F - correct

5. d – incorrect answer is b

6. as follows:

Exception thron in test method and caught by Exception!

In finally block!

In test method!

- First test() method runs...

- Inside test we throw and Exception.

- The catch block catches it and prints "Exception thron in test method and caught by Exception!"

- Then finally runs and prints "In finally block!"

- Then the remaining block runs and prints "In test method!"

- The execution then returns back to the caller main()

- Now since all exceptions are handled the catch block is skipped.

7. b (hashCode is used for hashing so codes wont match) - correct

true

null

# Part II

1. Put 9, 19, 20,1, 11 to map

hashCodes: 93, 103, 104, 85, 95

hashes: 3, 3, 4, 5,5

|  |  |
| --- | --- |
| Index | Entry |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 | (9, 18) -> (19, 38) |
| 4 | (20, 40) |
| 5 | (1, 2)-> (11, 22) |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |

1. BST: 5, 9, 2, 3, 1, 4, 8, 7