

Question 1. [14 MARKS]

1. (double) today / tomorrow
2. night == day
3. return !(a || b); or return a && !b;
4.

```
public double purchaseItem(double price, double tax) {
    return (price + tax);
}
```
5.

```
public class FloorPlan {
    private boolean brick;
    private static int numHouses;
}
```
6.

```
public class Calendar {
    private Month myMonth;

    public Calendar(Month m) {
        myMonth = m;
    }
}
```
7.

```
public String getBirthday(Date d) {
    int day = d.getDate();
    int month = d.getMonth();

    return day + " " + month;
}
```

Question 2. [14 MARKS]

```
import javax.swing.JFrame;

public class MovingFrame extends JFrame {

    private static boolean movedYet;

    public void translate() {
        int newY = getY() - getHeight() / 3;
        if (newY < 0) {
            newY = 0;
        }

        setLocation(getX(), newY);
        movedYet = true;
    }

    public static boolean hasMovedYet() {
        return movedYet;
    }
}
```

Question 3. [14 MARKS]**Solution:**

```
testConstructor
  P
```

```
testConstructorGetName
  P
```

```
testMarry1
  F    "Smurf"
```

```
testMarry2
  F    null (must be lowercase)
```

```
testMarryUnmarry
  F    null (must be lowercase)
```

```
testSetNames
  P
```

```
testSetNamesAndMarry
  F    "Smurf-Smurf"
```

```
testSetNamesAndRevert
  P
```

Total Marks = 42

Student #: _____

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END OF SOLUTIONS