

SECTIONAL GROUP:

DISCUSSION GROUP:

MATRICULATION NO:

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(Write your matriculation number
legibly using a PEN.)TOTAL
MARKS1. E2. A3. D4. E

5. [3 marks]

Syntax error on switch variable (should be an integer or a character)

Syntax error on duplicate values (e.g., 50-59=60-69=-9) for cases.

Syntax error on printf (should be double quote rather than single quote)

6. [2 marks]

26

7. [3 marks]

(a) day <= 6 && time <=8

(b) day <= 5 && time > 8
// time > 8 can be omitted if (a) is correct.(c) day == 7 && time <=8
// day == 7 can be omitted if (a) is correct.

8. [3 marks]

(a) {49, 1, 2, 3, 50} // Answer at list[0]
// At least one element >= 50(b) {1, 49, 2, 3, 50} // Answer at list[1] or after
// At least one element >= 50

(c) {1, 2, 3, 4, 5} // No element >= 50

9. [2 marks]

ii and iv

10. [5 marks]

```
int isAntisymmetric(int arr[][10], int n) {
    int i,j;
    for (i = 0; i < n; i++){
        for (j = 0; j < n; j++){
            if (j >= i && arr[i][j]+arr[j][i] != 0)
                return 0;
        return 1;
    }
```

11. (a) [4 marks]

```
declare and initialize variables count and add

loop for i = 0 to 5
    loop for j = 0 to 6
        if (chosen[i] == drawn[j])
            if (j == 6) set add to true
            else increase count

        if count == 6 print "Prize 1!"
        else if count == 5 and add is true, print "Prize 2!"
        else if count == 5, print "Prize 3!"
        else print "No prize."
```

(b) [4 marks]

```
int count = 0, add = 0;

for (i = 0; i < 6; i++){
    for (j = 0; j < 7; j++)
        if (chosen[i] == drawn[j])
            if (j == 6) add = 1;
            else count++;
}

if (count == 6) printf("Prize 1!");
else if (count == 5 && add) printf("Prize 2!");
else if (count == 5) printf("Prize 3!");
else printf("No prize.");
```