

Instructions:

- Close book
- Searching on the internet is not allowed
- Write your output under the question

Part 1 (15 points/30 minutes)

1. [3 points] Write the output of below code:

```
1 console.log('A'>'a')
2 console.log('1' = 1)
3 console.log(true < false)
4
```

2. [4 points] Write the output of the below code:

```
1 function twoNumber(num1, num2) {
2   let result
3   if (num1 < num2) {
4     result = 'true';
5   } else {
6     result = 'false';
7   }
8   return result;
9 }
10
11 if(twoNumber(90,50)){
12   console.log('num1 > num2')
13 }else{
14   console.log('num1 < num2')
15 }
```

3. [4 points] Write the output of the below code:

```
1  let arr1 = [1,2,3,4]
2  let arr2 = [5,6,7]
3
4  arr2.push(arr1[0])
5  arr1.push(arr2[0])
6  arr1.splice(0,1)
7  arr2.splice(0,1)
8  arr2.push(arr1[0])
9  arr1.push(arr2[0])
10 arr1.splice(0,1)
11 arr2.splice(0,1)
12
13 console.log(arr1)
14 console.log(arr2)
15
```

4. [4 points] Write the output of the below code:

```
1  let i = 0 ;
2  let output = ""
3  while(i<28){
4      if(i==0 || i ==6 || i==7 || i==10 || i==13 || i==14 || i==17 || i==20 || (i>20 && i<24) || i>24){
5          output += 'o'
6      }else{
7          output += 'x'
8      }
9      if(i==6 || i==13 || i==20 || i==27 ){
10         output += '\n'
11     }
12     i++ ;
13 }
14 console.log(output)
15
```

