



Mobile Application Development

Midterm Exam

Program: BSCS/SE-6

Time: 90 Minutes

Total Marks: 25

Question 1: (CLO-1) (3)

Differentiate between the native and cross platform mobile application development. How can cross platform development technologies are beneficial for you as a developer?

Question 2: (CLO-2) (4,2)

- a- Create a function named solve that can accept any number of parameters and display them on console.

Example:

```
solve(1,2,3,4);  
solve(1,2);
```

- b- Rewrite the code below to use array destructuring instead of assigning each value to a variable.

```
let item = ["Egg", 0.25, 12];  
let name = item[0];  
let price = item[1];  
let quantity = item[2];  
console.log(`Item: ${name}, Quantity: ${quantity}, Price: ${price}`);  
console.log();
```

Question 3: (CLO-2) (2, 2, 2)

Note: Must use the array methods.

- a- Filter all male characters from the Characters array given below.
b- For all the male character from part (a) multiply the height by 2.
c- Find the sum of height of all characters from part (b)

```
const characters = [  
  {  
    name: "Luke Skywalker",  
    height: 172,  
    mass: 77,  
    eye_color: "blue",  
    gender: "male",  
  },  
  {  
    name: "Darth Vader",  
    height: 202,  
    mass: 136,  
    eye_color: "yellow",  
    gender: "male",  
  },  
  {  
    name: "Leia Organa",  
    height: 150,  
    mass: 49,  
    eye_color: "brown",  
    gender: "female",  
  },  
  {  
    name: "Anakin Skywalker",  
    height: 188,  
    mass: 84,  
    eye_color: "blue",  
    gender: "male",  
  },  
];
```

Question 4: (CLO-3)

(2, 2, 3, 3)

- a- Differentiate between state and props in react native.
- b- Lis 2 differences of flex box in CSS and react native
- c- Create a component that accepts 2 numbers as props and display the sum of these numbers using text component. Call the component from App component.
- d- Create a state variable named 'counter'.
Call a function named "Watcher" whenever the value of counter changes.