

Sample Final Exam Questions

Question 1. Consider the following questions in JavaScript

- a) Write a function “Mul” to multiply all numbers entered whenever the function is called
Hint: Mul(3, 5, 2) and Mul(1, 7) should be acceptable by the function.

- b) Convert the functions in the following code to *arrow functions*

```
function Emp(name, hours, grade){  
  let out = ifType(hours, grade);  
  return name + " :"+ out;  
}
```

```
function ifType(){  
  if(grade < 4)  
    return hours *50;  
  else if(grade < 7)  
    return hours *55;  
  else  
    return hours * 65;  
};
```

c) Change the following code to if/else statement

```
let y = 20;  
let fun = (y%5) ? "Awesome" : (y%3) ? "Fair" : "Not good";  
console.log(fun);
```

Question 2. Give the output of the following JavaScript codes

a)

```
console.log(Emp("Felix", 50, 15));  
console.log(Emp("Ali", 55, 7));
```

```
function Emp(name, hours, grade){  
  let out = ifType(hours, grade);  
  return name + " :"+ out;
```

```
function ifType(){  
  if(grade < 4)  
    return hours *50;  
  else if(grade < 7)  
    return hours *55;  
  else  
    return hours * 65;
```

```
};  
}
```

b)

```
const msg = "cmse514";  
msg = "CMSE514";  
console.log(msg);
```

c)

```
let msg = "cmse514";  
msg = "CMSE514";  
console.log(msg);
```

d)

```
let msg = "cmse514";  
msg = "CMSE514"+4;  
console.log(msg);
```

e)

```
let msg = "cmse514";  
msg = 50.5;  
console.log(msg+5);
```

Question 3. Write a regular expression in JavaScript to make input to field at least 5 long and not more than 10. It should only allow uppercase alphabets and digits.

Question 4. Given the tables below;

- a) Write a query to show the first name and last name of customers from USA.
- b) Write a query to join the tables Employees and Schedule.
- c) Update Pending status to Delivered

Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

Orders

order_id	item	amount	customer_id
1	Keyboard	400	4
2	Mouse	300	4
3	Monitor	12000	3
4	Keyboard	400	1
5	Mousepad	250	2

Shippings

shipping_id	status	customer
1	Pending	2
2	Pending	4
3	Delivered	3
4	Pending	5
5	Delivered	1

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Question 5. Give the output of the following React codes

a)

```
class Content extends Component {
  constructor(props){
    super(props)
    this.state = { isLoggedIn: false  }
  }
  render(){
    return this.state.isLoggedIn && <div> Member Welcome </div>
  }
}
export default Content
```

- b)** Write a method to change the value of the state in “Content” whenever a button is clicked
- c)** What should be added in another Component such as App.js in order to use “Content.js”