

JK LAKSHMIPAT UNIVERSITY

B. TECH 5TH SEMESTER, TERM-III, DECEMBER 2021

SUBJECT: CRYPTOGRAPHY

MARKS: 20

CODE: CS1214

TIME: 1 HOUR 30 MINUTES

1. Write short notes on the following:

[2+2]

- I. Trusted Third Party for key exchange in toy protocol.
- II. Man in the middle attack in DH key exchange.

2. What is the role of secret key in signing algorithm for message integrity? What is a "Chosen Plaintext Attack(CPC)"? What does it mean by CPC security in a MAC?

Write the differences between CMAC and PMAC.

[3+3+2+2]

3. Describe in detail the Markel Puzzle. How Markel Puzzle provide security for key exchange as quadratic gap between user's computation and attacker's computation.

[3+3]

3. What is component driven development and what are the benefits of using component driven development?
4. How does the Virtual DOM work in browsers and improve better rendering than other technologies?
5. How does Props pass in the components in ReactNative?

```
const Myfunction =()=> {  
  return (  
    <View>  
      <Text> {props.name} </Text>  
      <Text> {props.status} </Text>  
    </View>  
  )  
}  
export default class App extends React.Component {  
  render() {  
    const disp = ['CSE' ,'2018','ALL PLACED'];  
    const listdc = disp.map(data =>{  
      return <Text> {data} </Text>  
    })  
    return (  
      <View style={styles.container}>  
        <Myfunction name= "Gaurav" status= "Job"/>  
  
        {listdc }  
        <Myfunction name="Raj" status= "Jobless"/>  
      </View>  
    );  
  }  
}
```

Explain above code.
