Question 1

(Answer)

Lists are used to display data in an ordered format and mainly used to display menus on websites. In React, Lists can be created in a similar way as we create lists in JavaScript. It is helpful in developing the user interface of any website. List items in unordered List should have a unique key. A "key" is a special attribute we need to include when creating lists of elements in React.

```
import React from 'react';
import ReactDOM from 'react-dom';
function ViewList(props) {
 const funList = props.funList;
 const itemsList = funList.map((dumList) =>
   {dumList}
  );
 return (
   <div>
       <h2>Rendering Lists inside component</h2>
             </div>
  );
const funList = ['Rahul', 'Rohit', 'Nikhil', 'Jass', 'Vipul'];
ReactDOM.render(
 <ViewList funList={funList} />,
 document.getElementById('app')
);
export default App;
```

Question 2

(Answer)

There is a missing dependency setSelectedIndex in React Hook useEffect. It should either be included or remove the dependency array.

Question 3.

(Answer)

```
import React, { useState, useEffect, memo } from 'react';
import PropTypes from 'prop-types';
const WrappedSingleListItem = ({ index, isSelected, onClickHandler, text }: any) => {
    style={{ backgroundColor: isSelected ? 'green' : 'red' }} onClick={onClickHandler(index)}>
WrappedSingleListItem.propTypes = {
 index: PropTypes.number,
 isSelected: PropTypes.bool,
 onClickHandler: PropTypes.func.isRequired,
 text: PropTypes.string.isRequired
const SingleListItem = memo(WrappedSingleListItem);
const WrappedListComponent = ({ items }: any) => {
 const [selectedIndex, setSelectedIndex, ] = useState();
 useEffect(() => {
   return setSelectedIndex(null);
 }, [items]);
 const handleClick = (index: number | null | undefined) => {
   setSelectedIndex(index);
   {items.map((item: { text: string; }, index: number | null | undefined) => (
       <SingleListItem onClickHandler={() => handleClick(index)} text={item.text} index={index}
isSelected={selectedIndex} />
};
WrappedListComponent.propTypes = {
 items: PropTypes.array(
    PropTypes.shapeOf({
     text: PropTypes.string.isRequired
WrappedListComponent.defaultProps = {
 items: null
const List = memo(WrappedListComponent);
export default List:
```