LINE 2 generates compilation error because instance variable basePower cannot be accessed in class Cooler.

LINE 3 generates compilation error because a variable of type Appliance

LINE 4 generates compilation error because a variable of type Cooler cannot 6406532774926. * refer to an object of type Appliance.

AppDev2

Section Id: 64065359214

Section Number: 7

Online Section type:

Mandatory or Optional: Mandatory

Number of Questions: 17 Number of Questions to be attempted: 17 **Section Marks:** 50 **Display Number Panel:** Yes

Section Negative Marks: 0

Group All Questions: No

Enable Mark as Answered Mark for Review and

No **Clear Response:**

Section Maximum Duration: 0 **Section Minimum Duration:** 0

Section Time In: Minutes

Maximum Instruction Time: Sub-Section Number:

Sub-Section Id: 640653122743

Question Shuffling Allowed: No

Question Number: 99 Question Id: 640653825092 Question Type: MCQ

Correct Marks: 0

Question Label: Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL: MODERN APPLICATION

DEVELOPMENT II (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT? CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE <u>TOP</u> FOR THE SUBJECTS REGISTERED BY YOU)

Options:

6406532774939. **✓** YES 6406532774940. **¾** NO

Sub-Section Number: 2

Sub-Section Id: 640653122744

Question Shuffling Allowed : Yes

Question Number: 100 Question Id: 640653825093 Question Type: MCQ

Correct Marks: 2

Question Label: Multiple Choice Question

Which of the following methods is not a valid DOM method in JavaScript?

Options:

```
6406532774941. ** getElementById()

6406532774942. ** getElementByPropertyName()

6406532774943. ** getElementsByTagName()

6406532774944. ** getElementByClassName()
```

Question Number: 101 Question Id: 640653825096 Question Type: MCQ

Correct Marks: 2

Question Label: Multiple Choice Question

What will be the output of the following code snippet?

```
let result = "";
for (let i = 0; i < 3; i++) {
   for (let j = 0; j < 2; j++) {
     result += " " + i + j + " ";
   }
}
console.log(result);</pre>
```

```
6406532774954. * 0 1 1 2 2 3 6406532774955. * 0 1 1 2 2 3 3 4
```

6406532774956. * 0 1 2 3 4 5

6406532774957. V 00 01 10 11 20 21

Question Number: 102 Question Id: 640653825099 Question Type: MCQ

Correct Marks: 2

Question Label: Multiple Choice Question

Which of the following statements best describes the ephemeral state?

Options:

6406532774968. * Data that persists across browser sessions.

6406532774969. * Data that is stored in a server-side database.

6406532774970. ✓ Temporary data that is not preserved across re-renders.

6406532774971. Application Data that is cached in the client's browser.

Question Number: 103 Question Id: 640653825101 Question Type: MCQ

Correct Marks: 2

Question Label: Multiple Choice Question

What is the difference between v-bind and v-model directives in Vue.js?

Options:

6406532774976. ✓ "v-bind" is used for one-way data binding, while "v-model" is used for two-way data binding.

6406532774977. * "v-bind" is used for two-way data binding, while "v-model" is used for one-way data binding.

6406532774978. [♣] Both "v-bind" and "v-model" are used for one-way data binding.

6406532774979. * Both "v-bind" and "v-model" are used for two-way data binding.

Sub-Section Number:

Sub-Section Id: 640653122745

Question Shuffling Allowed : Yes

Question Number: 104 Question Id: 640653825094 Question Type: MCQ

Correct Marks: 3

Question Label: Multiple Choice Question

What will be the output of the following JavaScript code?

```
let x = undefined;
let y = null;
let z = NaN;
console.log(x == y, x === y, y == z, y === z, isNaN(z));
```

```
6406532774945. * true false false true false
6406532774946. * false false false false true
6406532774947. 

true false false false true
6406532774948. * false true true false false
```

Question Number: 105 Question Id: 640653825095 Question Type: MCQ

Correct Marks: 3

Question Label: Multiple Choice Question

Consider the below JavaScript program.

```
const a = 15;

const obj1 = {
    a: 20,
    b: function () {
        console.log(this.a);
        this.b();
    }
}

const obj2 = {
    a: 10,
    b: () => {
        console.log(this.a);
    }
}

obj1.b.apply(obj2);
```

What will be the output of the above program, if executed?

```
20
6406532774949. 20
6406532774950. 20
undefined
```

undefined undefined

```
10
6406532774952. ✓ undefined
```

6406532774953. * The program will crash due to maximum call stack size exceeded error.

Question Number: 106 Question Id: 640653825097 Question Type: MCQ

Correct Marks: 3

Question Label: Multiple Choice Question

Consider the below JavaScript program.

```
let users = [
    { name: "Alice", age: 25 },
    { name: "Bob", age: 22 },
    { name: "Charlie", age: 30 },
];
users.sort((a, b) => a.age - b.age);
console.log(users.map((user) => user.name).join(", "));
```

What will be the output when the code is executed?

Options:

```
6406532774958. * Alice, Bob, Charlie 6406532774959. ✓ Bob, Alice, Charlie 6406532774960. * Charlie, Alice, Bob 6406532774961. * Charlie, Bob, Alice
```

Question Number: 107 Question Id: 640653825098 Question Type: MCQ

Correct Marks: 3

Consider the below javascript program.

```
const words = ['apple', 'banana', 'orange', 'grape', 'kiwi'];
const result = words.map(word => word.length).filter(len => len > 5);
console.log(result);
```

What will be the output of the above program, if executed?

Options:

```
6406532774962. * ['apple', 'banana', 'orange', 'grape', 'kiwi']
6406532774963. * [5, 6, 6, 5, 4]
6406532774964. * ['banana', 'orange']
6406532774965. * [6, 6]
6406532774966. * [5, 5]
6406532774967. * [true, true]
```

Question Number: 108 Question Id: 640653825100 Question Type: MCQ

Correct Marks: 3

Question Label: Multiple Choice Question

What is state management in the context of a web application?

Options:

6406532774972. * Organizing and storing data on the server-side database.

6406532774973. ✓ Handling and updating the state of client-side components and data.

6406532774974. Managing user session data using browser cookies.

6406532774975. Coordinating the state of HTTP requests and responses between client and server.

Question Number: 109 Question Id: 640653825102 Question Type: MCQ

Correct Marks: 3

Consider the following JavaScript program.

```
const obj1={
    age: 29,
    toy: 'kite'
const obj2={
    __proto__: obj1,
    animal: 'dogs',
    members: 45
console.log(obj1.toy)
console.log(obj1.animal)
console.log(obj2.age)
console.log(obj2.members)
console.log(Object.keys(obj2))
What will be the output of the above program, if executed?
```

```
Options:
                  kite
                  undefined
                  29
                  45
                  ['animal', 'members', 'age', 'toy']
6406532774980. **
                  kite
                  dogs
                  undefined
                  45
                  ['age', 'toy', 'animal', 'members']
6406532774981.
                  kite
                  dogs
                  undefined
                  45
                  ['age', 'toy']
6406532774982. **
```

6406532774983.

```
kite
undefined
29
45
['animal', 'members']
```

Question Number: 110 Question Id: 640653825107 Question Type: MCQ

Correct Marks: 3

Question Label: Multiple Choice Question

Consider the following html.

```
<div id="app">
   {{ message }}
   <button @click="updateMessage">Click me</button>
</div>
<script>
new Vue({
   el: '#app',
   data: {
       message: 'Hello!'
   },
   methods: {
       updateMessage() {
           this.message += '!';
   }
});
</script>
```

Assuming vue cdn has been added to the html and the html format is correct. What would be the output on the screen after clicking the button twice?

```
6406532775000. * Hello!
6406532775001. * Hello!
6406532775002. * Hello!!
6406532775003. • Hello!!!
```

Sub-Section Number: 4

Sub-Section Id: 640653122746

Question Shuffling Allowed : Yes

Question Number: 111 Question Id: 640653825103 Question Type: MSQ

Correct Marks: 3 Max. Selectable Options: 0

Question Label: Multiple Select Question

Which of the following is/are correct definition(s) of an arrow function that accepts a number and returns its square?

Options:

6406532774984. * let func = (num) => return num1*num1;

6406532774985. * let func = (num) => { num1*num1; }

6406532774986. let func = (num) => num1*num1;

6406532774987. let func = (num) => { return num1*num1; }

Sub-Section Number: 5

Sub-Section Id: 640653122747

Question Shuffling Allowed: Yes

Question Number: 112 Question Id: 640653825104 Question Type: MCQ

Correct Marks: 4.5

Consider the following JavaScript code embedded in the body of the HTML document given below.

```
<html>
<body>
    <div id="mybox">Test JS</div>
    <script>
        let count = 0;
        let change = setInterval(()=>{
            let box = document.getElementById('mybox');
            if(count % 2 == 1){
                box.style.backgroundColor = 'red';
                count++;
            else if(count % 3 == 1){
                box.style.backgroundColor = 'green';
                count++
            }
            else{
                box.style.backgroundColor = 'yellow';
                count++
            }
        }, 1000)
    </script>
</body>
</html>
```

If the document is rendered on the browser, what will be the sequence of background colors taken by the element with id="mybox" in the first 6 seconds of execution?

Options:

```
6406532774988.  
Red → Green → Yellow → Red → Green → Yellow

6406532774989.  
Red → Green → Red → Yellow → Red → Yellow

6406532774990.  
Yellow → Green → Yellow → Green → Yellow → Green

6406532774991.  
Yellow → Red → Yellow → Red → Green → Red
```

Question Number: 113 Question Id: 640653825105 Question Type: MCQ

Correct Marks: 4.5

Consider the below JavaScript program.

```
class Region{
    constructor(region){
        this.region = region;
    get describe(){
        return `${this.region} is one of the major geographical regions.`
class Country extends Region {
    constructor(region, country, nation){
        super(region)
        this.country = country;
        this.nation = nation;
    get describe(){
        return `${this.country} is a ${this.nation} nation in the region of
${this.region}.`
let Australia = new Region('Australia and NZ', 'Australia', 'developed')
let Germany = new Country('Europe', 'Germany', 'developed')
console.log(Australia.describe)
console.log(Germany.describe)
```

What will be the output of the above program, if executed?

Options:

Australia is a developed nation in the region of Australia and NZ. Germany is a developed nation in the region of Europe.

6406532774992. **

Australia and NZ is one of the major geographical regions. Germany is one of the major geographical regions.

6406532774993.

Australia is a developed nation in the region of Australia and NZ. Germany is one of the major geographical regions.

6406532774994.

6406532774995.

Australia and NZ is one of the major geographical regions. Germany is a developed nation in the region of Europe.

Question Number: 114 Question Id: 640653825106 Question Type: MCQ

Correct Marks: 4.5

Question Label: Multiple Choice Question

Consider the following Vue application with markup index.html and JavaScript file

app.js.

File: index.html

File: script.js

What will be rendered on the browser screen?

```
Welcome to Frontend Development
Vue is a JS Framework
Vue is a Frontend Framework
6406532774996. **
Learn Vue 2 and Vue 3
```

Welcome to Frontend Development Vue is a Frontend Framework Vue is a JS Framework Learn Vue 2 and Vue 3

Welcome to Frontend Development

Vue is a Frontend Framework

6406532774998. Learn Vue 2 and Vue 3

Welcome to Frontend Development

Vue is a JS Framework

6406532774999. * Learn Vue 2 and Vue 3

Question Number: 115 Question Id: 640653825108 Question Type: MCQ

Correct Marks: 4.5

```
<div id="app">
    <parent-component :title="parentTitle">
        <template slot="header">
            <h2>{{ headerTitle }}</h2>
        </template>
    </parent-component>
</div>
<script>
Vue.component('parent-component', {
   props: ['title'],
    template: `
    <div>
        <h1>{{ title }}</h1>
        <slot name="header"></slot>
        Main Content
    </div>
});
new Vue({
   el: '#app',
    data: {
        parentTitle: 'Parent Component Title',
        headerTitle: 'Header Content'
});
</script>
```

Assuming Vue CDN has been added to the HTML and the HTML format is correct. What would be the output on the screen?

Options:

```
Parent Component Title
```

6406532775004. * Main Content

Parent Component Title

Header Content

6406532775005. Wain Content

6406532775006. **

Parent Component Title

<h2>{{ headerTitle }}</h2>
Main Content

Header Content

6406532775007. * Main Content

MLT

No

Section Id: 64065359215

Section Number: 8

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 12

Number of Questions to be attempted: 12

Section Marks: 40

Display Number Panel: Yes

Section Negative Marks: 0

Group All Questions: No

Enable Mark as Answered Mark for Review and

Clear Response :

Section Maximum Duration: 0
Section Minimum Duration: 0

Section Time In: Minutes

Maximum Instruction Time:

Sub-Section Number: 1

Sub-Section Id: 640653122748

Question Shuffling Allowed: No

Question Number: 116 Question Id: 640653825109 Question Type: MCQ

Correct Marks: 0

Question Label: Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL: MACHINE LEARNING

TECHNIQUES (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

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