

AppDev2

Section Id :	64065330336
Section Number :	10
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
Section Marks :	50
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065367697
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 152 Question Id : 640653470078 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

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

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 [TOP](#) FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406531562151. ✓ YES

6406531562152. ✗ NO

Sub-Section Number : 2

Sub-Section Id : 64065367698

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 153 Question Id : 640653470079 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Selectable Option : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding javascript language?

Options :

6406531562153. ✗ The "undefined" and "null" are primitive data types.

6406531562154. ✓ Event capturing is the default behaviour for event propagation.

6406531562155. ✗ The language uses a call stack to execute statements of a program.

6406531562156. ✓ The "pass" is a keyword in the language.

Question Number : 154 Question Id : 640653470094 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Selectable Option : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are true?

Options :

6406531562213. ✓ The "v-show" directive has higher rendering cost than "v-if".

6406531562214. ✖ The “v-if” directive has higher rendering cost than “v-show”.

6406531562215. ✖ The “v-show” directive has higher toggle cost than “v-if”.

6406531562216. ✔ The “v-if” directive has higher toggle cost than “v-show”.

Sub-Section Number :	3
Sub-Section Id :	64065367699
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 155 Question Id : 640653470080 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Which of the following is the correct definition of an immediately invoked function expression (IIFE)?

Options :

6406531562157. ✖ `let x = function () { return “IIFE” }`

6406531562158. ✖ `function () { return “IIFE” }`

6406531562159. ✔ `(function () { return “IIFE” }) ()`

6406531562160. ✖ `function () { return “IIFE” } ()`

Question Number : 156 Question Id : 640653470087 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Consider the following two programs.

1)

```
var x = 7  
var x = 8  
console.log(x)
```

2)

```
let y = 9  
let y = 10  
console.log(y)
```

What will be the output of the first and second program, respectively?

Options :

6406531562185. ✖ 8, 10

6406531562186. ✖ Error: Identifier 'x' is already declared, Error: Identifier 'y' is already declared

6406531562187. ✔ 8, Error: Identifier 'y' is already declared

6406531562188. ✖ Error: Identifier 'x' is already declared, 10

Sub-Section Number :

4

Sub-Section Id :

64065367700

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 157 Question Id : 640653470081 Question Type : MSQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 2 Selectable Option : 0

Question Label : Multiple Select Question

Which of the following is/are not higher order function(s) in javascript language?

Options :

6406531562161. ✔ call()

6406531562162. ✖ map()

6406531562163. ✔ slice()

6406531562164. ✖ find()

Question Number : 158 Question Id : 640653470088 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Selectable Option : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are true?

Options :

6406531562189. ✔ A variable declared using var can be re-declared and updated within its scope.

6406531562190. ✖ A variable declared using let can be re-declared and updated within its scope.

6406531562191. ✖ A variable declared using const can be re-declared, but cannot be updated within its scope.

6406531562192. ✔ A variable declared using let cannot be re-declared, but can be updated within its scope.

Sub-Section Number :	5
Sub-Section Id :	64065367701
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 159 Question Id : 640653470082 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the below javascript program, and predict the output, if executed.

```
var number1 = 10;

function do_something () {
    number1 = 20;

    function number1 () {
        console.log("Number is:", number1);
    }
}
do_something();

console.log("Number is:", number1);
```

Options :

6406531562165. ✖ Number is: 20

6406531562166. ✔ Number is: 10

6406531562167. ✖ Number is: undefined

6406531562168. ✖ Number is: null

Question Number : 160 Question Id : 640653470083 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the below javascript program, and predict the output, if executed in a REPL environment.

```
var first = 10;
let obj1 = {
  first : 20,
  do_something : function () {
    console.log(first, this.first);
  }
}
let obj2 = {
  first : 30,
  do_something : () => {
    console.log(first, this.first);
  }
}
obj1.do_something();
obj2.do_something();
```

Options :

6406531562169. ✖ 10 20

10 30

6406531562170. ✔ 10 20

10 10

6406531562171. ✖ 10 20

10 undefined

6406531562172. ✖ 20 20

30 30

Question Number : 161 Question Id : 640653470085 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following Vue application with markup "index.html" and javascript file "app.js".

index.html:

```
<div id = "wrapper1">
  <div id = "wrapper2">
    <div id = "wrapper3">
      <p> Welcome to the {{ course_name }} course quiz exam !! </p>
    </div>
  </div>
</div>
<script src = "app.js"> </script>
```

app.js:

```
const obj1 = new Vue({
  el: '#wrapper1',
  data: {
    course_name: 'App Development I',
  },
})

const obj2 = new Vue({
  el: '#wrapper2',
  data: {
    course_name: 'App Development II',
  },
})

const obj3 = new Vue({
  el: '#wrapper3',
  data: {
    course_name: 'Python',
  },
})
```

Suppose if you open the file "index.html" in a browser, what will be rendered by the browser?

Options :

6406531562177. ✔ Welcome to the App Development I course quiz exam !!

6406531562178. ✖ Welcome to the App Development II course quiz exam !!

6406531562179. ✖ Welcome to the Python course quiz exam !!

6406531562180. ✖ Welcome to the course quiz exam !!

Question Number : 162 Question Id : 640653470089 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following javascript program and predict the output.

```
function outer() {  
  let x = 7  
  try {  
    console.log(y)  
  } catch {  
    console.log('Y is not defined')  
  }  
  
  function inner() {  
    let y = 9  
    try {  
      console.log(x)  
    } catch {  
      console.log('X is not defined')  
    }  
  }  
  inner()  
}  
  
outer()
```

Options :

6406531562193. ✓ Y is not defined

7

6406531562194. ✗ 9

X is not defined

6406531562195. ✗ 7

9

6406531562196. ✗ Y is not defined

X is not defined

Question Number : 163 Question Id : 640653470092 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following Vue application with markup "index.html" and javascript file "app.js".

index.html:

```
<body>
  <div id="app">{{count}}</div>
  <script
src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
  <script src="app.js"></script>
</body>
```

app.js:

```
new Vue({
  el: '#app',
  data: {
    count: 1,
  },
  beforeCreate() {
    this.count += 4
  },
  created() {
    this.count += 2
  },
  mounted() {
    this.count += 3
  },
})
```

Suppose if you open the file "index.html" in a browser, what will be rendered inside the div element with ID "app"?

Options :

6406531562205. ✖ 9

6406531562206. ✖ 5

6406531562207. ✖ 10

6406531562208. ✔ 6

Question Number : 164 Question Id : 640653470093 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following Vue application with markup “index.html” and javascript file “app.js”.

index.html:

```
<body>
  <div id="app"></div>
  <script
src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
  <script src="app.js"></script>
</body>
```

app.js:

```
const Like = {
  template: `<div><span id='like' code1 >{{likes}} {{emoji}}
</span></div>`,
  data() {
    return { emoji: '👍' }
  },
  props: ['likes'],
}

const Data = {
  template: `<div> This is data. </div>`,
}

const Post = {
  template: `<div><Data /><Like :likes='likes' @like='like' /></div>`,
  components: {
    Like,
    Data,
  },
  data() {
    return { likes: 1 }
  },
  methods: {
    like() {
      this.likes += 1
    },
  },
}

new Vue({
  el: '#app',
  template: `<div><Post /></div>`,
  components: {
    Post,
  },
})
```

Suppose a developer wants to create a feature that whenever a user clicks on the span element with ID 'like' in like component, it increases the "likes" data of Post component by 1. Which of the following code is best suited for "code1" placeholder?

Options :

6406531562209. ✖ @click="emit('like')"

6406531562210. ✖ click = "emit('like')"

6406531562211. ✔ @click="\$emit('like')"

6406531562212. ✖ click = "\$emit('like')"

Sub-Section Number :	6
Sub-Section Id :	64065367702
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 165 Question Id : 640653470084 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the below javascript program, and predict the output, if executed in a script and REPL environment.

```
var num = 50;

var obj = {
  num : 100,
  do_something : function() {
    console.log("First:", num, "Second:", this.num);
  }
}

obj.do_something.bind()();
```

Options :

6406531562173. ✖ For Script: First: 50 Second: 100

For REPL: First: 50 Second: 50

6406531562174. ✖ For Script: First: 50 Second: undefined

For REPL: First: 50 Second: 100

6406531562175. ✖ For Script: First: 50 Second: 100

For REPL: First: 50 Second: undefined

6406531562176. ✓ For Script: First: 50 Second: undefined

For REPL: First: 50 Second: 50

Question Number : 166 Question Id : 640653470086 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the below javascript program, and predict how many times the text “Abhi” will be shown on the console, till the program execution is completed. Also, predict the minimum time the program will take to display the text “Abhi” 12 times on the console.

```
let j = 1;
let id = setInterval(() => {
  for (let i = 0; i < j; i++)
    console.log("Abhi");
  if (j > 4) clearInterval(id);
  else j++;
}, 500)
```

Options :

6406531562181. ✖ The text “Abhi” will be shown 10 times

The program will not display the text “Abhi” 12 times

6406531562182. ✖ The text “Abhi” will be shown 15 times

The program will take a minimum of 3 seconds to display the text “Abhi” 12 times

6406531562183. ✓ The text “Abhi” will be shown 15 times

The program will take a minimum of 2.5 seconds to display the text “Abhi” 12 times

6406531562184. ✖ The text “Abhi” will be shown 10 times

The program will take a minimum of 1.5 seconds to display the text “Abhi” 12 times

Question Number : 167 Question Id : 640653470090 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Predict the output of following javascript code.

```
function marks(sem1, sem2) {
  const sem1Marks = sem1
  const sem2Marks = sem2
  return {
    currentSem: () => {
      return sem1Marks
    },
    cgpa: () => {
      return (sem1Marks + sem2Marks) / 2
    },
  }
}

std1 = marks(70, 80)
try {
  console.log(std1.currentSem(), std1.cgpa(), std1.sem1Marks)
} catch {
  console.log('Something went wrong')
}
```

Options :

6406531562197. ✖ Something went wrong

6406531562198. ✖ 70 75 70

6406531562199. ✔ 70 75 undefined

6406531562200. ✖ Undefined undefined undefined

Question Number : 168 Question Id : 640653470091 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the following Vue application with markup "index.html" and javascript file "app.js".

Index.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <style>
      .color1 {
        color: red;
      }
      .color2 {
        color: green;
      }
    </style>
  </head>
  <body>
    <div id="app">
      <span id="part1Id" :class="part1">{{flower.part1}}</span>
      <span id="part2Id" :class="part2">{{flower.part2}}</span>
      <button @click="changeFlower">Change Flower</button>
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
    <script src="app.js"></script>
  </body>
</html>
```

app.js:

```
new Vue({
  el: '#app',
  data: {
    flower: { part1: 'petal', part2: 'leaf' },
    classObj1: { color1: true, color2: false },
    classObj2: { color1: false, color2: true },
    isRose: false,
  },
  computed: {
    part1() {
      return this.isRose ? this.classObj1 : this.classObj2
    },
    part2() {
      return this.isRose ? this.classObj2 : this.classObj1
    },
  },
  methods: {
    changeFlower() {
      this.isRose = !this.isRose
    },
  },
})
```

What will be the text color of the element having ID “part1Id” and “part2Id”, respectively, when the user loads the application for the first time?

Options :

6406531562201. ✓ Green, Red

6406531562202. ✗ Red, Green

6406531562203. ✖ Red, Red

6406531562204. ✖ Green, Green

MLT

Section Id :	64065330337
Section Number :	11
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
Section Marks :	100
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065367703
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 169 Question Id : 640653470095 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

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