

6406531929812. ✓
This program generates the output:
You got 34 tickets
Tickets sold out
You got 34 tickets

6406531929813. ✖
This program generates the output:
You got 34 tickets
You got 34 tickets

6406531929814. ✖
This program generates the output:
You got 34 tickets
Tickets sold out

AppDev2

Section Id :	64065339075
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 :	64065382606
Question Shuffling Allowed :	No

Is Section Default? : null

Question Number : 151 Question Id : 640653577904 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 (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 [TOP](#) FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406531929823.  YES

6406531929824.  NO

Sub-Section Number : 2

Sub-Section Id : 64065382607

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 152 Question Id : 640653577905 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Suppose you are given the below HTML.

```
<body>
  <p id = "id1" class = "class1">Content A</p>      <!-- Statement 1 -->
  <p id = "id2" class = "class1">Content B</p>      <!-- Statement 2 -->
</body>
```

Which of the following code(s) can be used to access the HTML paragraph element at "Statement 1" using JavaScript?

Options :

6406531929825. ✖ document.getElementById("id2")

6406531929826. ✔ document.getElementById("id1")

6406531929827. ✖ document.getElementsByClassName("class1")

6406531929828. ✔ document.getElementsByClassName("class1")[0]

Question Number : 153 Question Id : 640653577910 Question Type : MSQ Is Question

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

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following is/are not example(s) of system level state?

Options :

6406531929845. ✔ Gmail Inbox of a given user

6406531929846. ✖ User database of LinkedIn

6406531929847. ✔ YouTube Recommendations after signing in

6406531929848. ✔ Countdown timer in a game

Question Number : 154 Question Id : 640653577913 Question Type : MSQ Is Question

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

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statements is/are true?

Options :

6406531929857. ✔ Lexical scope describes how the parser resolves the variable name in case of nested functions.

6406531929858. ✔ Inner functions have access to the outer functions variables in JavaScript.

6406531929859. ✘ Inner functions do not have access to the outer functions variables in JavaScript.

6406531929860. ✘ None of these.

Sub-Section Number :	3
Sub-Section Id :	64065382608
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 155 Question Id : 640653577906 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 statements is correct regarding "<noscript>" tag in HTML?

Options :

6406531929829. ✘ This tag is used to insert the JavaScript code to be run when the page opens.

6406531929830. ✔ This tag is used to insert HTML, if the browser doesn't support script or is disabled.

6406531929831. ✘ This tag, if used in a web page, does not let the browser cache the page contents.

6406531929832. ✘ None of these

Sub-Section Number :	4
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Sub-Section Id : 64065382609

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 156 Question Id : 640653577908 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.

```
class Person {
  constructor(name) {
    this.name = name;
    this.age = 23;
  }
  static fromJson(obj) {
    let new_obj = new Person(obj.name);
    new_obj.sound = obj.sound;
    return new_obj;
  }
}
result = new Person('Abhi');
console.log(Person.fromJson(JSON.parse(JSON.stringify(result))).constructor.name);
```

Options :

6406531929837. ✓ Person

6406531929838. ✗ Abhi

6406531929839. ✗ constructor

6406531929840. ✗ Reference Error

Question Number : 157 Question Id : 640653577909 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.

```
let x = 50;
const obj1 = {
  x : 10,
  func : function () {
    console.log(this.x)
  }
}

const obj2 = {
  x : 20,
  func : () => {
    function abc () {
      console.log(x, "and", this.x)
      obj1.func.call(this)
    }
    abc()
  }
}

obj2.func()
```

Options :

6406531929841. ✖ 50 and 20
10

6406531929842. ✖ 50 and 20
undefined

6406531929843. ✔ 50 and undefined
undefined

6406531929844. ✖ 50 and undefined
10

Question Number : 158 Question Id : 640653577911 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 Vue application with markup file "index.html", and JavaScript file "app.js".

index.html:

```
<body>
  <div id = "app">
    <ol>
      <li v-for="item in items" :key="item.id">{{ item.name }}</li>
    </ol>
  </div>
</body>
<script src = "app.js"> </script>
```

app.js:

```
const a = new Vue({
  el : '#app',
  data : {
    items: [
      { id: 1, name: 'App Dev I Theory' },
      { id: 2, name: 'App Dev I Project' },
      { id: 3, name: 'App Dev II Theory' },
      { id: 4, name: 'App Dev II Project' }
    ]
  },
})
```

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

Options :

App Dev II Project
App Dev II Theory
App Dev I Project
App Dev I Theory

6406531929849. ✖

App Dev I Theory
App Dev I Project

6406531929850. ✖

App Dev II Theory
App Dev II Project
6406531929851. ✖

App Dev I Theory
App Dev I Project
App Dev II Theory
App Dev II Project
6406531929852. ✔

Question Number : 159 Question Id : 640653577912 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 Vue application with markup file "index.html", and javaScript file "app.js".

index.html:

```
<body>
  <div id = "app">
    <ol>
      <li v-for="item in items" :key="item.id">
        <blog-post :post-title = "item.name" :post-content =
"item.message"> </blog-post>
      </li>
    </ol>
  </div>
</body>
<script src = "app.js"> </script>
```


app.js:

```
Vue.component('blog-post', {
  props: {
    'postTitle' : String,
    'postContent' : String
  },
  template: `
    <div>
      <h3>{{ postTitle }}</h3>
      <p>{{ postContent }}</p>
    </div>
  `
})

const a = new Vue({
  el : '#app',
  data : {
    items: [
      { id: 1, name: 'IITM BS', message: "The World's first 4-year BS degree in DS and Applications"},
      { id: 2, name: 'IITM ES', message: "Learn Electronic Systems from top-notch IIT Madras faculty"},
      { id: 3, name: 'NPTEL', message: "Online Learning Initiatives by IITs and IISc"}
    ]
  },
})
```

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

Options :

1. IITM BS

2. IITM ES

6406531929853. ✖ 3. NPTEL

6406531929854. ✔

1. IITM BS

The World's first 4-year BS degree in DS and Applications

2. IITM ES

Learn Electronic Systems from top-notch IIT Madras faculty

3. NPTEL

Online Learning Initiatives by IITs and IISc

1. The World's first 4-year BS degree in DS and Applications

2. Learn Electronic Systems from top-notch IIT Madras faculty

6406531929855. ✖ 3. Online Learning Initiatives by IITs and IISc

A. NPTEL

Online Learning Initiatives by IITs and IISc

B. IITM ES

Learn Electronic Systems from top-notch IIT Madras faculty

C. IITM BS

6406531929856. ✖ The World's first 4-year BS degree in DS and Applications

Question Number : 160 Question Id : 640653577914 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.

```
function doSomething(n, ...params) {  
  return params  
    .map((x) => {  
      return x ** n  
    })  
    .sort()  
}  
  
console.log(doSomething(2, 5, 10))
```

What will be logged on to console?

Options :

6406531929861. ✖ [5, 10]

6406531929862. ✖ [25, 100]

6406531929863. ✖ [10, 5]

6406531929864. ✔ [100, 25]

Question Number : 161 Question Id : 640653577915 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.

```
function coolerPlace({...obj }) {  
  let tmp = 0  
  let cty = null  
  Object.entries(obj).forEach(([city, temp]) => {  
    if (temp > tmp) {  
      cty = city  
    }  
  })  
  return cty  
}  
console.log(coolerPlace({ UP: 37, Delhi: 40 })))
```

What will be logged on to console?

Options :

6406531929865. ✖ UP

6406531929866. ✔ Delhi

6406531929867. ✖ 37

6406531929868. ✖ 40

Question Number : 162 Question Id : 640653577916 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.

```
const address1 = {
  state: 'Tamil Nadu',
  city: 'Chennai',
  place: 'IIT Madras',
  getAddress() {
    return `State: ${this.state}, city: ${this.city},
place:${this.place}`
  },
}

const address3 = {
  place: 'Taramani',
  __proto__: address1,
}

console.log(address3.getAddress())
```

What will be logged on to console?

Options :

6406531929869. ✔ State: Tamil Nadu, city: Chennai, place: Taramani

6406531929870. ✖ State: Tamil Nadu, city: Chennai, place: IIT Madras

6406531929871. ✖ State: , city: , place:Taramani

6406531929872. ✖ State: , city: , place:

Question Number : 163 Question Id : 640653577917 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.

```
let x = 1
let y = 2
{
  let x = 4
  let y = 5
}
function outer() {
  function inner() {
    return x + y
  }
  return inner
}
console.log(outer()())
```

What will be logged on to console?

Options :

6406531929873. ✖ 9

6406531929874. ✔ 3

6406531929875. ✖ NaN

6406531929876. ✖ undefined

Sub-Section Number : 5

Sub-Section Id : 64065382610

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 164 Question Id : 640653577907 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. Also, predict the number of times the while loop will run.

```
function do_something(arr, val){
    var i1 = 0;
    var i2 = arr.length;
    while(i2 > i1){
        var i3 = Math.floor((i1 + i2)/2);
        if(val > arr[i3]){
            i1 = i3 + 1;
        }
        else if(val < arr[i3]){
            i2 = i3;
        }
        else{
            return true;
        }
    }
    return false;
}

result = do_something([3, 6, 34, 39, 48, 56, 78, 87], 40)
console.log(result)
```

Options :

6406531929833. ✖ true
The while loop will run 3 times

6406531929834. ✖ false
The while loop will run 4 times

6406531929835. ✔ false
The while loop will run 3 times

6406531929836. ✖ true
The while loop will run 4 times

Question Number : 165 Question Id : 640653577918 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 Vue application with markup file "index.html", and JavaScript file "app.js".

app.js

```
new Vue({
  el: '#app',
  template: `<div> The nearest city to you is: {{minDistance}}
</div>`,
  data: {
    userCoordinate: [1, 2],
    allCooridates: [
      { name: 'City1', coodinate: [1, 7] },
      { name: 'City2', coodinate: [2, 4] },
      { name: 'City3', coodinate: [3, 5] },
      { name: 'City4', coodinate: [1, 4] },
    ],
  },
  methods: {
    calculateDistance(x, y) {
      return Math.abs(x[0] - y[0]) + Math.abs(x[1] - y[1])
    },
  },
  computed: {
    minDistance() {
      let minDist = Infinity
      let city = null
      this.allCooridates.forEach((cord) => {
        let d = this.calculateDistance(cord.coordinate,
this.userCoordinate)
        if (d < minDist) {
          minDist = d
          city = cord.name
        }
      })
      return city
    },
  },
})
```

index.html

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

Suppose the application is running on <http://localhost:8080>.

What will be rendered by the browser?

Options :

6406531929877. ✖ The nearest city to you is: City1

6406531929878. ✖ The nearest city to you is: City2

6406531929879. ✖ The nearest city to you is: City3

6406531929880. ✔ The nearest city to you is: City4

Question Number : 166 Question Id : 640653577919 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 Vue application with markup file “index.html”, and JavaScript file “app.js”.

app.js

```
new Vue({
  el: '#app',
  template: `<div>
<input type='text' v-model='num'></input>
<div id='lon'>Lucky or not? {{lucky?'Lucky':'Not Lucky'}}</div>
</div>`,
  data: {
    num: 1,
    prev: 0,
    current: 1,
    lucky: false,
  },
  watch: {
    num(num1, num2) {
      if (num1 == '') {
        return
      }
      this.prev = this.current
      this.current = Number(num1)
      this.current > this.prev ? (this.lucky = true) : (this.lucky =
false)
    },
  },
})
```

index.html

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

Suppose the application is running on '<http://localhost:8080>'. Suppose the user inputs 7 and then 5. What will be rendered inside the div with id 'lon'?

Options :

6406531929881. ✖ Lucky or not? Lucky

6406531929882. ✔ Lucky or not? Not Lucky

6406531929883. ✖ Lucky or not?

6406531929884. ✖ None of these

Question Number : 167 Question Id : 640653577920 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 Vue application with markup file "index.html", and JavaScript file "app.js".

app.js

```
const Sender = {
  template: `<div> Message: <input type='text'
v-model='message'></input> </div>`,
  data() {
    return {
      message: null,
    }
  },
  watch: {
    message(msg) {
      this.$emit('newmsg', this.message)
    },
  },
}

const Receiver = {
  template: '<div id="msg"> {{msg}} </div>',
  props: ['msg'],
}

new Vue({
  el: '#app',
  template: `<div>
<Sender @newmsg = 'updateMessage' />
<Receiver :msg='message' />
</div>`,
  data: {
    message: null,
  },
  methods: {
    updateMessage(msg) {
      this.message = msg.split('').reverse().join('').toUpperCase()
    },
  },
  components: {
    Sender,
    Receiver,
  },
})
```

index.html

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

Suppose the application is running on '<http://localhost:8080>'. If the user inputs 'hello' inside the input box, what will be rendered inside the div with ID 'msg'?

Options :

6406531929885. ✖ hello

6406531929886. ✖ HELLO

6406531929887. ✔ OLLEH

6406531929888. ✖ olleh

MLT

Section Id :	64065339076
Section Number :	11
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	13
Number of Questions to be attempted :	13
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 :	64065382611
Question Shuffling Allowed :	No
Is Section Default? :	null