

This code generates the output:
Discount granted
6406532468069. ✓ Item not eligible for discount

This code generates the output:
Item not eligible for discount
Discount granted
6406532468070. ✖

AppDev2

Section Id :	64065351359
Section Number :	11
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
Section Negative Marks :	0
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 :	640653107642
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 162 Question Id : 640653737440 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 :

6406532468071.  YES

6406532468072.  NO

Sub-Section Number :	2
Sub-Section Id :	640653107643
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 163 Question Id : 640653737441 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 code. What will be logged on to the console once the code is executed?

```
function checkThis() {  
  return this.name  
}  
const Obj1 = {  
  name: 'Obj1',  
  checkThis: checkThis,  
}  
const Obj2 = {  
  name: 'Obj2',  
  checkThis: checkThis,  
}  
console.log(Obj2.checkThis(), Obj1.checkThis.call(Obj2))
```

Options :

6406532468073. ✖ Obj1 Obj1

6406532468074. ✖ Obj1 Obj2

6406532468075. ✖ Obj2 Obj1

6406532468076. ✔ Obj2 Obj2

Sub-Section Number :

3

Sub-Section Id :

640653107644

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 164 Question Id : 640653737442 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 JavaScript code. What will be logged on to the console once the code is executed?

```
const stateManager = function () {  
  let defaultState = false  
  function alterState() {  
    defaultState = !defaultState  
  }  
  return {  
    currentState() {  
      return defaultState  
    },  
    changeState() {  
      alterState()  
    },  
  }  
}  
  
const sm1 = stateManager()  
sm1.changeState()  
const sm2 = stateManager()  
  
console.log(sm1.currentState(), sm2.currentState())
```

Options :

6406532468077. ✖ true true

6406532468078. ✔ true false

6406532468079. ✖ false true

6406532468080. ✖ false false

Sub-Section Number :

4

Sub-Section Id :

640653107645

Question Shuffling Allowed :

Yes

Is Section Default? :

null

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 JavaScript code. What will be logged on to the console once the code is executed?

```
const player = {  
  name: 'Rohit',  
  state: 'Maharashtra',  
}  
  
const batsman = Object.create(player)  
  
console.log(batsman.name)
```

Options :

6406532468081. ✓ Rohit

6406532468082. ✗ undefined

6406532468083. ✗ null

6406532468084. ✗ None of these

Question Number : 166 Question Id : 640653737444 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 JavaScript code. What will be logged on to the console once the code is executed?

```
const emails = [  
  'user1@study.iitm.ac.in',  
  'user2@gmail.com',  
  'user3@study.iitm.ac.in',  
]  
  
const studentsEmail = emails.filter((email) =>  
  email.endsWith('study.iitm.ac.in')  
)  
console.log(studentsEmail)
```

Options :

6406532468085. ✖ [[user1@study.iitm.ac.in](#), [user2@gmail.com](#), [user3@study.iitm.ac.in](#)]

6406532468086. ✔ [[user1@study.iitm.ac.in](#), [user3@study.iitm.ac.in](#)]

6406532468087. ✖ [[user2@gmail.com](#), [user3@study.iitm.ac.in](#)]

6406532468088. ✖ [[user2@gmail.com](#)]

Sub-Section Number :

5

Sub-Section Id :

640653107646

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 167 Question Id : 640653737445 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 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

```
new Vue({
  el: '#app',
  template: `
<div>
  {{text}}
  <div>
    <input type="text" v-model="userInput" />
    <div id="match">
      {{hasMatched?"Not Matched":"Matched"}}
    </div>
  </div>
</div>`,
  data: {
    text: 'This is text',
    userInput: null,
  },
  computed: {
    hasMatched() {
      return this.text.startsWith(this.userInput)
    },
  },
})
```

Suppose the application is running on "<http://localhost:8080/>". If the User inputs "This" in the input box. What will be rendered inside the div with id "match"?

Options :

6406532468089. ✔ Not Matched

6406532468090. ✖ Matched

6406532468091. ✖ undefined

6406532468092. ✖ null

Sub-Section Number :	6
Sub-Section Id :	640653107647
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 168 Question Id : 640653737446 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 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

```
new Vue({
  el: '#app',
  template: `<div>
<div id="holiday">{{isHoliday?"Holiday":"Not Holiday"}}</div>
<button @click="increeseCount">Increese Count</button>
</div>`,
  data: {
    count: 1,
    isHoliday: false,
  },
  watch: {
    count() {
      if (this.count % 5 == 0) {
        this.isHoliday = true
      }
    },
  },
  methods: {
    increeseCount() {
      this.count += 6
    },
  },
})
```

Suppose the application is running on "<http://localhost:8080>" if the user clicks on button "Increese Count" 5 times. What will be rendered inside the div with id "holiday"?

Options :

6406532468093. ✓ Holiday

6406532468094. ✗ Not Holiday

6406532468095. ✗ true

6406532468096. ✗ false

Sub-Section Number :	7
Sub-Section Id :	640653107648
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 169 Question Id : 640653737447 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 code. What will be logged on to the console once the code is executed?

```
class Album {
  constructor(creator, albumName) {
    this.creator = creator
    this.albumName = albumName
    this.songs = []
  }
  addSong(song) {
    this.songs.push(song)
  }
}

class Song {
  constructor(name, duration) {
    this.name = name
    this.duration = duration
    this.album = null
  }
  addAlbum(album) {
    this.album = album
  }
}

a1 = new Album('creator1', 'Album1')
s1 = new Song('Song1')
a1.addSong(s1)
console.log(a1.songs.length)
```

Options :

6406532468097. ✖ 0

6406532468098. ✔ 1

6406532468099. ✖ 2

6406532468100. ✖ None of these

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 code. What will be logged on to the console once the code is executed?

```
class Album {
  constructor(creator, albumName) {
    this.creator = creator
    this.albumName = albumName
    this.songs = []
  }
  addSong(song) {
    this.songs.push(song)
  }
}

class Song {
  constructor(name, duration) {
    this.name = name
    this.duration = duration
    this.album = null
  }
  addAlbum(album) {
    this.album = album
  }
}

a1 = new Album('creator1', 'Album1')
s1 = new Song('Song1')

s1.addAlbum(a1)
console.log(a1.songs.length)
```

Options :

6406532468101. ✓ 0

6406532468102. ✖ 1

6406532468103.

✖ 2

6406532468104. ✖ None of these

Sub-Section Number :	8
Sub-Section Id :	640653107649
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 171 Question Id : 640653737449 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

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

Options :

- 6406532468105. ✖ Any variable declared using “var” keyword has a global scope.
- 6406532468106. ✔ Any variable declared using “let” keyword has a block based scope.
- 6406532468107. ✔ The language supports the concept of arrays.
- 6406532468108. ✔ The language uses a call stack to execute the functions in the program.

Sub-Section Number :	9
Sub-Section Id :	640653107650
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 172 Question Id : 640653737450 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.

```
const obj = [{
  id: "1"
}, {
  id: "2"
}, {
  id: "3"
}, {
  id: " 4"
}, {
  id: " 5  "
}];
const finalObj = obj.map((element) => element.id).map((element) =>
element.trim()).map((element) => parseInt(element)).filter((element) =>
element % 2);
console.log(finalObj, finalObj.length);
```

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

Options :

6406532468109. ✖ [1, '3', '5'] 3

6406532468110. ✖ [2, '4'] 2

6406532468111. ✔ [1, 3, 5] 3

6406532468112. ✖ [2, 4] 2

6406532468113. ✖ [1, '2', '3', '4', '5'] 5

6406532468114. ✖ [1, 2, 3, 4, 5] 5

Sub-Section Number : 10

Sub-Section Id : 640653107651

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 173 Question Id : 640653737451 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 example(s) of application state (i.e., system as seen by an individual

user)?

Options :

6406532468115. ✔ Shopping cart of an e-commerce application

6406532468116. ✖ Loading icons

6406532468117. ✖ Currently selected tab in a multipage / document

6406532468118. ✔ Followed news items in a news app

Sub-Section Number :	11
Sub-Section Id :	640653107652
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 174 Question Id : 640653737452 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

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

Options :

6406532468119. ✔ The computed properties are auto triggered when any of the reactive dependencies changes.

6406532468120. ✔ The computed properties are cached based on their reactive dependencies.

6406532468121. ✖ The watchers need to be manually triggered when the watched property is assigned a new value.

6406532468122. ✖ The watchers can be defined globally, and apply to all instances of a Vue component.

Sub-Section Number :	12
Sub-Section Id :	640653107653
Question Shuffling Allowed :	Yes

Is Section Default? :	null
Question Number : 175 Question Id : 640653737453 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	
Which of the following is a valid function definition to return the sum of 2 numbers passed as parameter?	
Options :	
6406532468123. ✖ let add = (x, y) => x + y	
6406532468124. ✖ let add = (x, y) => { x + y; }	
6406532468125. ✖ function add (x, y) { return x + y; }	
6406532468126. ✔ All of these	
Sub-Section Number :	13
Sub-Section Id :	640653107654
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 176 Question Id : 640653737454 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.

```
const property1 = 10;
const obj1 = {
  property1: 20,
  property2: function () {
    console.log(property1, this.property1);
    return this.property1;
  }
}

const obj2 = {
  property1: 30,
  property2: () => {
    console.log(property1, this.property1);
    console.log(this.property2);
  }
}
obj2.property2();
```

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

Options :

6406532468127. ✖ 10 30

20

6406532468128. ✖ 10 30

undefined

6406532468129. ✖ 10 undefined

30

6406532468130. ✔ 10 undefined

undefined

6406532468131. ✖ 10 30

10 20

20

6406532468132. ✖ 10 undefined

10 undefined

undefined

Sub-Section Number : 14

Sub-Section Id : 640653107655

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 177 Question Id : 640653737455 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 not a valid Vue directive?

Options :

6406532468133. ✖ v-model

6406532468134. ✔ v-click

6406532468135. ✖ v-if

6406532468136. ✖ v-show

Sub-Section Number : 15

Sub-Section Id : 640653107656

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 178 Question Id : 640653737456 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.

```
const a = 2;
const b = "";

const obj1 = {
  property1: 10,
  property2: 20
}

const obj2 = {
  a: 1,
  b: 2,
  ...(a && !b && { obj1 })
};

console.log(obj2);
```

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

Options :

6406532468137. ✖ { a: 1, b: 2, property1: 10, property2: 20 }

6406532468138. ✔ { a: 1, b: 2, obj1: { property1: 10, property2: 20 } }

6406532468139. ✖ { property1: 10, property2: 20 }

6406532468140. ✖ { a: 1, b: 2 }

MLT

Section Id :	64065351360
Section Number :	12
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	11
Number of Questions to be attempted :	11
Section Marks :	50
Display Number Panel :	Yes