

```

        college.Student obj1 = new college.Student("Sam", "IITM");
        dance.Student obj2 = new dance.Student(obj1.getName(), "Traditional");
6406531166159. ✓ dance.Student obj3 = new dance.Student("Ram", obj2.getType());

        Student obj1 = new college.Student("Sam", "IITM");
        Student obj2 = new dance.Student(obj1.getName(), "Traditional");
6406531166160. ✖ Student obj3 = new dance.Student("Ram", obj2.getType());

```

AppDev-2

Section Id :	64065322139
Section Number :	9
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 :	64065350410
Question Shuffling Allowed :	No

Question Number : 145 Question Id : 640653351370 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 "MODERN APPLICATION DEVELOPMENT 2"

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 :

6406531166169. ✓ Yes

6406531166170. ✗ No

Sub-Section Number : 2

Sub-Section Id : 64065350411

Question Shuffling Allowed : Yes

Question Number : 146 Question Id : 640653351373 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 = "app">
  <input v-model = "data" />
  <p> Number of refreshes: {{refreshes}} </p>
  <button @click = "do_something"> Click Me</button>
</div>
<script src = "app.js"> </script>
```

app.js:

```
const a = new Vue({
  el : '#app',
  data : {
    data : "",
    refreshes : 0,
  },
  methods: {

    do_something() {
      if (isNaN(this.refreshes)) this.refreshes = 0;
      if (this.data.length % 2) {
        sessionStorage.data = "prefix" + this.data;
        sessionStorage.refreshes = this.refreshes * 2 + 1;
      }
      else {
```

```
        sessionStorage.data = this.data + "suffix";
        sessionStorage.refreshes = this.refreshes * 2 - 1;
      }
    },
    mounted : function () {
      if (sessionStorage.data) {
        this.data = "suffix" + sessionStorage.data;
        this.refreshes = Number(sessionStorage.refreshes) % 3 - 1;
      }

      else {
        this.data = sessionStorage.data + "prefix";
        this.refreshes = Number(sessionStorage.refreshes) % 3 + 1;
      }

      sessionStorage.data = this.data;
      sessionStorage.refreshes = this.refreshes;
    }
  })
```

Say you open the file "index.html" in the browser, and enter the text "iitm" in the text box shown (after removing the existing text from the input box), and click on the button with the text "Click Me". After that, you refresh the page twice. What will be the text shown in the text input box, and the value of the "refreshes" placeholder, respectively?

Options :

6406531166179. ✖ suffixiitmsuffix, -2

6406531166180. ✖ suffixsuffixiitmsuffix, -2

6406531166181. ✔ suffixsuffixiitmsuffix, -3

6406531166182. ✖ suffixiitmsuffix, -3

Question Number : 147 Question Id : 640653351375 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

Suppose you are organizing a ceremony to award the startup companies who have progressed considerably well in the past few years. You have received a lot of registrations. The committee has decided to shortlist the companies based on the following 2 criteria:

1. The company must have a website
2. The company must have a capital of more than 40000

Fill in the **code1** & **code2**, which can be used in Vuex Store to update the “awardees” state variable with the objects of those companies who satisfy the above-mentioned criteria.

```

const store = new Vuex.Store({
  state : {
    companies : [
      {
        name : 'sample1',
        website : 'sample1.com',
        capital : 50000
      },
      {
        name : 'sample2',
        website : null,
        capital : 75000
      },
      {
        name : 'sample3',
        website : 'sample3.com',
        capital : 42000
      },
      {
        name : 'sample4',
        website : 'sample4.com',
        capital : 38000
      },
    ],
    awardees : []
  },

  mutations : {
    update_final(state, minimum) {
      for (company of state.companies)
        code2
    }
  },
  actions : {
    send_task : function (context) {
      code1
    }
  }
})

```

Options :

```

code1: this.$store.commit("update_final", 40000);
code2: if (company.website !== null && company.capital > minimum)
      state.awardees.push(company)

```

6406531166187. ✖

```

code1: context.commit("update_final", 40000);
code2: if (company.website !== null && capital > minimum)
      awardees.push(company)

```

6406531166188. ✖

```
code1: this.$store.commit("update_final", 40000);
code2: if (company.website != null && capital > minimum)
    awardees.push(company)
```

6406531166189. ✖

```
code1: context.commit("update_final", 40000);
code2: if (company.website != null && company.capital > minimum)
    state.awardees.push(company)
```

6406531166190. ✔

Question Number : 148 Question Id : 640653351383 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 running in a browser environment.


```

async function FetchFunc(ApiUrl) {
  const response = await fetch(ApiUrl).catch(() => {
    throw new Error('Network Error')
  })

  if (response) {
    if (response.ok) {
      const data = await response.json().catch(() => {
        throw new Error('Unexpected Error')
      })
      if (data) {
        return data
      }
    } else {
      throw new Error(response.statusText)
    }
  }
}

Const url = 'dummyUrl'
FetchFunc(url)
  .then((data) => {
    console.log(data)
  })
  .catch((err) => {
    console.log(err.message)
  })

```

Consider the 'dummyUrl' returns the HTML as payload. What will be logged on to the console?

Options :

6406531166219. ✖ Network Error

6406531166220. ✔ Unexpected Error

6406531166221. ✖ Not Found

6406531166222. ✖ None of these

Question Number : 149 Question Id : 640653351384 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">
    <router-view></router-view>
  </div>
  <script src="app.js" type="module"></script>
  <script src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
  <script src="https://unpkg.com/vue-router@2.0.0/dist/vue-router.js"></script>
</body>
```

app.js:

```
const Create = {
  template: `<div>{{message}}</div>`,
  computed: {
    message() {
      return this.$route.query.update
        ? 'This is create page'
        : 'This is update page'
    },
  },
}

const router = new VueRouter({
  routes: [{ path: '/', component: Create }],
})

new Vue({
  el: '#app',
  router,
})
```


Suppose the application is running on "<http://127.0.0.1:8080>". What will be the value of message property of Create component for "http://127.0.0.1:8080/#/?update=true" ?

Options :

6406531166223. ✓ This is create page

6406531166224. ✗ This is update page

6406531166225. ✗ null

6406531166226. ✗ None of these

Question Number : 150 Question Id : 640653351385 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">
    <router-view></router-view>
  </div>
  <script src="app.js" type="module"></script>
  <script src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
  <script src="https://unpkg.com/vue-router@2.0.0/dist/vue-router.js"></script>
</body>
```

app.js:

```

const home = { template: `<div> This is home page</div>`, name: 'home' }
const profile = {
  template: `<div> This is profile page of {{this.$route.params.name}}</div>`,
}
const user = {
  template: `<div> Welcome {{this.$route.params.name}}
<div><router-view></router-view></div>
</div>`,
}
const router = new VueRouter({
  routes: [
    { path: '/', component: home },
    {
      path: '/user/:name',
      component: user,
      children: [
        { path: '', component: home },
        { path: 'home', component: home },
        { path: 'profile', component: profile },
      ],
    },
  ],
})

new Vue({
  el: '#app',
  router,
})

```

Suppose the application is running on "<http://127.0.0.1:8080>". What will be displayed by the browser for "<http://127.0.0.1:8080/#/user/mohan/profile>"?

Options :

6406531166227. ✔ Welcome mohan

This is profile page of mohan

6406531166228. ✖ Welcome

This is profile page of mohan

6406531166229. ✖ Welcome mohan

This is profile page of

6406531166230. ✖ Welcome mohan

Question Number : 151 Question Id : 640653351386 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">
    <router-view></router-view>
  </div>
  <script src="app.js" type="module"></script>
  <script src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
  <script src="https://unpkg.com/vue-router@2.0.0/dist/vue-router.js"></script>
</body>
```

app.js:

```
const home = { template: `<div> This is home page</div>`, name: 'home' }
const profile = {
  template: `<div> This is profile page of {{this.$route.params.name}}</div>`,
}
const user = {
  template: `<div> Welcome {{this.$route.params.name}}
<div><router-view></router-view></div>
</div>`,
}
const router = new VueRouter({
  routes: [
    { path: '/', component: home },
    {
      path: '/user/:name',
      component: user,
      children: [
        { path: '', component: home },
        { path: 'home', component: home },
        { path: 'profile', component: profile },
      ],
    },
  ],
})

new Vue({
  el: '#app',
  router,
})
```

What will be displayed by the browser for "<http://127.0.0.1:8080/#/user/mohan>"?

Options :

6406531166231. ✖ Welcome mohan

This is home page of mohan

6406531166232. ✔ Welcome mohan

This is home page

6406531166233. ✖ Welcome

This is home page

6406531166234. ✖ Welcome

This is home page of mohan

Sub-Section Number : 3
Sub-Section Id : 64065350412
Question Shuffling Allowed : Yes

Question Number : 152 Question Id : 640653351371 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 program, and predict the output, if executed.

```
async function test() {  
  let a = await new Promise(r => r(2 && 4)).catch(e => e);  
  let b = await new Promise((res, rej) => {  
    if (a <= 2) res(a && 5);  
    else rej(5 && a);  
  }).catch(e => e);  
  console.log(a, b);  
}  
test();
```

Options :

- 6406531166171. ✖ 1 1
- 6406531166172. ✔ 4 4
- 6406531166173. ✖ 2 5
- 6406531166174. ✖ 4 5

Question Number : 153 Question Id : 640653351372 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 program, and predict the output, if executed.

```

new Promise((reject, resolve) => {

  function test (input1, input2, data) {
    let obj = {
      input1 : input1,
      input2 : input2
    }

    if (data.find(el => el.input1 == obj.input1 && el.input2 != obj.input2))
      resolve("Element Found")
    else
      reject("Element Missing")
  }

  data = [{ 'input1' : 4, 'input2' : 'input2' }]
  test(4, 4, data)

}).then(data => console.log("Test failed !!", data)
).catch(error => console.log("Test Passed !!", error))

```

Options :

- 6406531166175. ✖ Test Passed !! Element Missing
- 6406531166176. ✖ Test Failed !! Element Found
- 6406531166177. ✖ Test Failed !! Element Missing
- 6406531166178. ✔ Test Passed !! Element Found

Question Number : 154 Question Id : 640653351374 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:


```

<div id = "app">
  <input v-model = "data" />
  <p> Number of refreshes: {{refreshes}} </p>
  <button @click = "do_something"> Click Me</button>
</div>
<script src = "app.js"> </script>

```

app.js:

```

const a = new Vue({
  el : '#app',
  data : {
    data : "",
    refreshes : 0,
  },
  methods: {

    do_something() {
      if (isNaN(this.refreshes)) this.refreshes = 0;
      if (this.data.length % 2) {
        sessionStorage.data = "prefix" + this.data;
        sessionStorage.refreshes = this.refreshes * 2 + 1;
      }
      else {
        sessionStorage.data = this.data + "suffix";
        sessionStorage.refreshes = this.refreshes * 2 - 1;
      }
    }
  },
  mounted : function () {
    if (sessionStorage.data) {
      this.data = "suffix" + sessionStorage.data;
      this.refreshes = Number(sessionStorage.refreshes) % 3 - 1;
    }

    else {
      this.data = sessionStorage.data + "prefix";
      this.refreshes = Number(sessionStorage.refreshes) % 3 + 1;
    }

    sessionStorage.data = this.data;
    sessionStorage.refreshes = this.refreshes;
  }
})

```

Say you open the file “index.html” in the browser, and enter the text “nptel” in the text box shown (after removing the existing text from the input box). After that, you refresh the page thrice. What be the text shown in the text input box, and the value of the “refreshes” placeholder, respectively?

Options :

6406531166183. ✓ suffixsuffixsuffixundefinedprefix, NaN

6406531166184. ✗ suffixsuffixsuffixundefinedprefix, -3

6406531166185. ✗ suffixsuffixundefinedprefix, NaN

6406531166186. ✗ suffixsuffixundefinedprefix, -3

Question Number : 155 Question Id : 640653351382 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 program running in a browser environment.

```
function PromiseConstructor(t) {
  return new Promise((res, rej) => {
    setTimeout(() => {
      res(t)
    }, t * 1000)
  })
}
async function test() {
  const x1 = await PromiseConstructor(1)
  console.log(2)
  const x2 = await PromiseConstructor(3)
  console.log(x1)
  console.log(x2)
}
test()
console.log(4)
```

What will be logged on to the console in (value, t) format, where “t” represents the approximate

time in seconds (from the start of the execution of the program), and “value” represents the output value logged on to the console. For example: If 2 is logged on to console after 5 seconds, answer is (2, 5).

Options :

(4, 0)
(2, 0)
(1, 0)
6406531166215. ✖ (3, 0)

(4, 0)
(2, 1)
(1, 1)
6406531166216. ✖ (3, 3)

(4, 0)
(2, 1)
(1, 3)
6406531166217. ✖ (3, 3)

(4, 0)
(2, 1)
(1, 4)
6406531166218. ✔ (3, 4)

Sub-Section Number : 4

Sub-Section Id : 64065350413

Question Shuffling Allowed : Yes

Question Number : 156 Question Id : 640653351376 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Select Question

Which of the following statement(s) is/are true regarding GraphQL and REST API?

Options :

6406531166191. ✖ GraphQL is always better than an API, irrespective of the nature, scale and function of an application.

6406531166192. ✔ GraphQL can be used with every programming language, which is capable of making HTTP requests.

6406531166193. ✔ It is possible to cache the responses of REST API endpoints.

6406531166194. ✖ All of these

Question Number : 157 Question Id : 640653351377 Question Type : MSQ Is Question

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

Correct Marks : 2

Question Label : Multiple Select Question

Which of the following statement(s) is/are correct regarding Vuex?

Options :

6406531166195. ✔ Vuex provides a common solution to the parent component to the child component communication and vice-versa.

6406531166196. ✖ The usage of global variables over Vuex makes it easier to track the state changes.

6406531166197. ✔ Vuex is preferred in cases where multiple views depend on the same state.

6406531166198. ✖ Only the direct child components (not the descendants) have access to the Vuex store.

Question Number : 158 Question Id : 640653351380 Question Type : MSQ Is Question

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

Correct Marks : 2

Question Label : Multiple Select Question

Which of the following is correct regarding JWT?

Options :

6406531166207. ✔ It is used as an access token to share information between two parties.

6406531166208. ✔ It contains encoded JSON data.

6406531166209. ✖ It contains encoded XML data.

6406531166210. ✖ Only payload, encoded in base64 format, is contained in JWT web token.

Question Number : 159 Question Id : 640653351381 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Select Question

Which of the following is true regarding CORS?

Options :

6406531166211. ✔ It allows servers to indicate which origins can load the resource from the server.

6406531166212. ✖ It allows the client to indicate from which server it can load resource.

6406531166213. ✔ Enabling CORS is not required for same origin request.

6406531166214. ✖ All of these

Sub-Section Number : 5

Sub-Section Id : 64065350414

Question Shuffling Allowed : Yes

Question Number : 160 Question Id : 640653351378 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding PWA and SPA?

Options :

6406531166199. ✔ The idea of an SPA is to improve the SEO aspects of the web application.

6406531166200. ✖ A web application manifest provides the information required for a web app to be downloaded and presented to the user in a native like experience.

6406531166201. ✖ It is the service worker that helps a PWA serve cached contents of a page, when offline.

6406531166202. ✔ Both gmail.com and amazon.in are examples of SPA.

Question Number : 161 Question Id : 640653351379 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding token based authentication?

Options :

6406531166203. ✖ The token generated generally expires after a certain time period, and this time period can also be customized according to the application requirements.

6406531166204. ✔ The client must send the token with the first request to authenticate, and need not send the token in the subsequent requests.

6406531166205. ✖ The fetch calls to a flask API will fail due to the CORS error by default.

6406531166206. ✔ If using flask-security for achieving token based authentication, all the API endpoints are protected by default.

MLT

Section Id :	64065322140
Section Number :	10
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	19
Number of Questions to be attempted :	19
Section Marks :	50
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes