

## DESCRIPTION

STUDENT'S NAME: Saurav garg	
PROGRAM:	<b>Web design</b>
DATE: 25/09/2021	
TEACHER'S NAME: Suthakhar	
COURSE:	<b>Data Processing Technologies (TTD)</b>
TYPE OF EXAM:	<b>Final exam</b>
DURATION:	<b>3 hours</b>
AUTHORIZED MATERIAL:	<b>None</b>

## OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **25 %** of the final grade.

Penalties imposed on a student accused of an attempt at plagiarism could include, but are not limited to, a grade of 0% for examination or for the entire course. The student could also be either put on probation, suspended and / or expelled from the program.

## OTHER INFORMATION

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Revised by : **M.-J. Villeneuve**

Approved by : \_\_\_\_\_

**Good luck !**

**Question 1**

/3

Briefly explain what is an API.

Ans API is standing in application programming interface which includes in a set of rules and specification that

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Application can follow in order to communicate with each other. In addition they manage how application can talk

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With each other and how information gets disturbed on the internet.

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**Question 2**

/3

Briefly explain what is a third party API.

The third party API are not built into the browser and its commonly mandatory to retrieve their

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Code and data from an external source on the web.

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**Question 3**

/3

Give an example of a browser's API.

**DOM is the example of API. DOM is standing document object model which**

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Make it possible to manipulate the HTML and CSS.

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**Question 4**

/3

Briefly explain what is a public API.

Ans public API are the application programming interface which are intended for design and different clients  
To use transparently anywhere.

**Question 5**

What is an endpoint?

(Circle the letter corresponding to your answer)

/3

- a) A computer system linked to a public database.
- b) The final line of an API script closing an external file containing data
- c) The URL of a file containing data.
- d) An AJAX request.
- e) None of the above.

ANS. (C)

**Question 6**

/3

(True or false, circle your answer)

In order to retrieve data from an external file using JavaScript, it isn't always mandatory to make an AJAX request.

TRUE

FALSE

**ANS. TRUE****Question 7**

/3

Name the two languages most commonly used to make data available using an API.

**JSON AND XML****Question 8**

/3

What language is used in the following script example :

```
<container>
  <name>John</name>
  <age>42</age>
</container>
```

XML

**Question 9**

/3

What language is used in the following script example :

```
{
  name: "John",
  age: "42"
}
```

JSON

**Question 10**

/5

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the name in a DIV containing #result as ID (not including the AJAX request).

Data :

```
{
  name: "John",
  age: "42"
}
```

```
ANS . <script>
  Var xml http= new xml http request ();
  Xml http. Onreadystatechange=function()
  {
  If (this ready state == 4 && this status = 200) {
  Var object= json parse (this response test
  $ ("result"). Html (object.name );
  }
  };
  Xmlhttp.open ('get','mytest.json',true);
  Xml http.send ();
</script>
```

**Question 11**

/10

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the age in a DIV containing #result as ID (including the AJAX request).

Data :

```
{
  users: [
    nom: "John",
    age: "42"
  ]
}
```

```
ANS . <script type = 'text/ javascript' language = 'javascript'>
$. Get json ('mytest.json, function(data )
{
$( '#result').html (data.name);
$( '#result').append(data.name);
}
);
```

**Question 12**

/3

(Circle your answer)

In order to evaluate the number of items contained in an array named « container », how could we proceed?

- a) container[i]
- b) find(container).[i]
- c) container.length
- d) \$.length("container")
- e) None of the above

ANS © (container.length)