

## DESCRIPTION

STUDENT'S NAME: Parwinder singh	
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

Prepared by : **Jean-Guy Turgeon**

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

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

**Good luck !**

## Question 1

/3

Briefly explain what is an API.

Ans API is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. Each time you use an app like Facebook, send an instant message, or check the weather on your phone, you're using an API.

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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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Makes 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)

Question6

/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

Question7

/3

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

JSON AND XML

Question8

/3

What language is used in the following script example :

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

XML

Question9

/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 . &lt;script&gt;

```
    Var xmlhttp= new xmlhttp request ();
    Xmlhttp. Onreadystatechange=function()
    {
    If (this ready state == 4 && this status == 200) {
    Var object= json parse (this response text
    $ ("result").html (object.name );
    }
    };
    Xmlhttp.open ('get','mytest. json', true);
    Xmlhttp. 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 . &lt;script type = 'text/ javascript' language = 'javascript'&gt;

```
$. 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`)