DESCRIPTION

SUTDENT'S NAME:	Manju Bala
PROGRAM:	**Web design**
DATE:	25 September
TEACHER'S NAME:	Sutakhar
COURSE:	**Data Processing Technologies (TTD)**
TYPE OF EXAM:	**Final exam**
DURATION:	**3 hours**
AUTHORIZED MATERIAL:	**None**

OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **XX5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **XX25** % 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.

API stands for Application Programming Interface; it consists in a set of
rules and specifications that applications have to follow in order to
communicate with each other. They govern how the data should be shared
all over the internet. For example, there is any object like laptop or
anything. An API will take care of the details of it.

Question 2   /3

Briefly explain what is a third party API.

Third party APIs are APIs provided by third parties — generally
companies such as Facebook, Twitter, or Google — to allow you to
access their functionality via JavaScript and use it on your site. One
of the most obvious examples is using mapping APIs to display
custom maps on your pages

Question 3   /3

Give an example of a brower's API.

The most obvious example is the DOM (Document Object Model) API,
which allows you to manipulate HTML and CSS — creating, removing and
changing HTML, dynamically applying new styles to your page, etc.

Question 4

/3

Briefly explain what is a public API.

Public APIs are also known as Open APIs. It consists of a large amount of data that shared by developers as they gave access different services to the users. So, it made data publicly available. There are very large number of APIs to choose from and there are different ways to connect to them.

Question 5

What is an endpoint?
(Circle the letter corresponding to your answer)

/3

a) A compouter 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.

Question 6

/3

(True or false, circle your answer)
In order to retrieve data from an external file using JavaScript, it isn't alway
mandatory to make an AJAX request.

TRUE   (FALSE)

Question 7

/3

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

JSON & XML.

/3

Question 8

What language is used in the folowwing script example :

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

/3

XML Language.

Question 9

What language is used in the folowwing 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"
```

```
<!DOCTYPE html>
      <html>
      <head>
      <script
src="https://ajax.googl
eapis.com/ajax/libs/jq
uery/3.5.1/jquery.min.
js"></script>
      <script>
$(document).ready(fu
nction(){
$("button").click(functi
on(){
$.getJSON("mydata.jso
n", function(result){
$("#result").append(re
sult.firstName + " ");
});
});
});
</script>
</head>
<body>
<button>Get JSON
data</button>
<div id="result"></div>
</body>
</html>
```

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"
        ]
```

```
<div id="result"></div>
<script>
$(document).ready(function(){
Data:
{
users: [
nom: "John",
age: "42"
]
}
$("#result").html(Data.users.age);
});
</script>
```

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