

DESCRIPTION	
SUTDENT'S NAME:	RAJ KUMAR
PROGRAM:	Web design
DATE:	25-09-2021
TEACHER'S NAME:	Suthakhar Ponnambalam
COURSE:	Data Processing Technologies (TTD)
TYPE OF EXAM:	Final exam
DURATION:	3 hours
AUTHORIZED MATERIAL:	None

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.**Answer :**

API stands for Application Programming Interface, and it is a software intermediary that enables two programs to communicate with one another. An API is used every time you use an app like Facebook, send an instant message, or check the weather on your phone.

Question 2

/3

Briefly explain what is a third party API.**Answer :**

Third-party APIs are APIs offered by third parties — typically companies like Facebook, Twitter, or Google — that allow you to access and use their features via JavaScript on your web.

Question 3

/3

Give an example of a browser's API.

Answer : APIs are used in web apps to link user-facing front ends with critical back end features and data. APIs are used to deliver content through streaming providers such as Spotify and Netflix. APIs are used by automakers such as Tesla to distribute app upgrades. Others use APIs to make car details available to third parties.

Question 4

/3

Briefly explain what is a public API.

Answer : Also known as Open APIs, public APIs are application programming interfaces made available to developers. Using the APIs, the developer may give access different services to users. Public APIs include what is called Big Data which consist of very large amount of data made publicly available.

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.

Question6

/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

Question7

/3

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

**Answer : JSON
XML**

Question8

/3

What language is used in the folowwing script example :

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

Answer:- XML Language is used in this example.

Question9

/3

What language is used in the folowwing script example :

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

```
}
```

Answer:- Json language is used in this example.

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 #re- sult as ID (not including the AJAX request).

Dat

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

Answer:-

```
<div id=""></div>  
<script type="text/javascript" language="javascript">  
$.getJSON('mytest.json', function (data) {  
    $("div").append("Your name is " + data.name);  
});  
</script>
```

Question 11

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"
  ]
}
```

Answer:-

```
<div id=""></div>
<script type="text/javascript" language="javascript">
$.getJSON('mytest.json', function (data) {
$("div").append("You are " + data.age + " year old.");
});
</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