

DESCRIPTION

SUTDENT'S NAME:	Gurpreet Singh
PROGRAM:	Web design
DATE:	2021/09/25
TEACHER'S NAME:	Suthakar
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.

The Application Programming Interface is a software interface that enables two programmers to communicate with one another without the need for human involvement. API stands for application programming interface, and it is a set of software functions and operations.

Question 2

/3

Briefly explain what is a third party API.

A third-party API enables you to access a third-functionality party's or data on your website or app. An API enables one application to communicate with another. You may save a significant amount of time by using a third-party API to use functionality that does not require re-building.

Question 3

/3

Give an example of a browser's API.

A Web API is a Web-based application programming interface. A Browser API can be used to enhance the capabilities of a web browser. A web server's capabilities can be enhanced by using a Server API. All browsers come with a set of built-in Web APIs to aid with sophisticated tasks and data access.

Question 4

/3

Briefly explain what is a public API.

An open API, often known as a public API, is a software developer-accessible application programming interface. Open APIs are publicly available on the internet and may be freely shared, allowing the owner of a network-accessible business to provide users with universal access.

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 always mandatory to make an AJAX request.

TRUE FALSE

Question7

/3

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

- 1. JSON**
- 2. XML**

Question8

/3

What language is used in the following script example :

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

Ans- XML

Question9

/3

What language is used in the following script example :

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

}

Ans- 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).

Dat

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

Ans- <Script>

```
Var XML http = new Xml http Request ( );  
XML http. On ready state change = function ( );  
{  
  If ( this .ready state= I4 this. Status=200)  
  }  
  Var Obj= JSON.Parse (this. Response text);  
{ ("result"). Html ( obj.Name);  
}  
Xmlhttp.open ("Get ", "mytest.JSON",true)  
Xml http. Send( );  
</script>
```

Question 11

/1

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).

0

Dat

```
a : {  
  users: [  
    nom:  
    "John",
```

```

age" );
"42" ( "# result"). Append (data.name);
]
}    };

```

Ans-

<scri

pt

type

=

“text/

Java

script

“

Lang

uage

=

“java

script

”>

\$.get

JSO

N (“

my

test.

JSO

N’,

funct

ion (

data)

{

(“#

result

”).

Html

(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