A.1
API (Application Programming Interface) is not the database or even a server , it is a code that governs the access points for the server. Ex= Buying a movie ticket ,you went to movie site ; enter movie name, and cradit card info and print out tickets . But what actually is going on ? API's are collabrating behind the scenes with other application.

A.2
Third Party API is basically provided by Third party example Facebook,Twitter or Google. It basically helps you to access their functionality via javascipt and implement in your site.

A.3
The common example is DOM(Document Object Model) API , which allows you to manipulate HTML and CSS ,Canvas and WebGl helps for drawing and manipulating graphics,WebRTC helps in audio and video APIs.

A.4
Public API (Open API) in simple meaning API which is availbale for anyone . This API provides developers with access to a proprietary software application or web-service.

A.5
b) The final line of an API script closing an external file containing data

A.6
The correct answer is. False

It is not mandatory to make an Ajax request while retrieving data from external file in javascript.

A.7
We can create an API in any computer language, the two most commonly used languages are following:

1. PHP
2. Python

- The most popular application programming interface created by PHP developers are: Open weather map, API football, IMDb, Cricket live scores, musicXmatch.
- The most popular API's created by python developers are : Yahoo finance, Temp mail, Spoonacular, IEX...etc,.

A.8
Language used: XML (eXtensible Markup Language)
XML is used to store and transport data. It is a self descriptive language. XML wrapped its information in tags.
In above example their is a container is tag contain information. The "Name" tag contain information about persons name. In "Age" tag there is a information about persons age.

A.9
On the basis of given example syntax { name: "John", age: "42" }, it can be said that the language used here should be most likely Javascript, as the given syntax resembles to the javascript objects syntax, and since JSON syntax is derived from JavaScript object notation, and no more details are specified in the question, there is a chance that the language used here can be JSON (within javascript) as well.

A.10
Jquery code below for JSON file:

```
<head>
    <title>The JQuery Json</title>
```

```
    <script src = "https://ajax.googleapis.com/ajax/libs/jquery/
2.1.3/jquery.min.js"></script>

    <script>
      $(document).ready(function() {

        $("#driver").click(function(event){
          $.getJSON('display.json', function(jd) {
            $('#stage').html('<div> Name: ' + jd.name + '</
div>');

            $('#stage').append('<div>Age : ' + jd.age+ '</div>');
          });
        });

      });
    </script>
 </head>
 <body>
    <p>Click on the button to load display.html file:</p>
    <div id = "stage" style = "background-color:#cc0;">
      STAGE
    </div>
    <input type = "button" id = "driver" value = "Load Data" />
</body>
$.ajax({
  method: "POST",
  url: "some.php",
  dataType: "json",
  data: {}
}).done(json => console.log(json));
```

A.11

```java
1   public class Main
2   {
3       public static void main(String[] args) {
4           int[] container = {1,2,3,4,5};
5           for(int i = 0;i<container.length;i++){ // WE PROCEED WITH container.length
6               /// EVALUATE ///
7               if(container[i]%2 ==0){
8                   System.out.print(container[i]+" ");
9               }
10          }
11      }
12  }
13
```

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

A.12
C) container.length

IN ORDER TO EVALUATE THE NUMBER OF ITEMS OF ARRAY, WE
NEED TO LOOP THROUGH ALL OF THEM. FOR THAT WE NEED
LENGTH OF ARRAY WHICH CAN BE FOUND WITH (container.length).