**ANS 1**-:Advantages and disadvantages of ajax-:

ADVANTAGES OF AJAX

* Allows applications to render without data and fill data as the application gets it from the server.
* Gives platform independence to application developers
* Faster page renders
* More responsive applications
* No rerenders of whole pages are needed to update only a single area.

DISADVANTAGES OF AJAX

* Any user whose browser does not support JavaScript or XMLHttpRequest, or has this functionality disabled, will not be able to properly use pages that depend on Ajax.
* Multiple server requests need more data consumed at the client-side.
* Failure of any one request can fail the load of the whole page.
* Browsers with JS disabled will not be able to use pages using ajax.

**ANS 2-:** Synchronous request is the process in which execution of the request stops until a response is received and Asynchronous request means the script continue the process without waiting for the server to reply. It will handle the reply if it arrives.

**ANS 3-:** Xml http request object is a API which s used for fetching data from the server . XMLHTTP request is basically used is Ajax programming. Itr is used to retrieve any type of data .It request for data in background and update page without reloading on the client side.

**ANS 4-:**

* + - XMLHTTPRequest object have many useful class properties which helps in the flexible handling of response. The XMLHTTPRequest object properties are:
    - readyState: This property indicate the status of the connection.
    - status: It contains the http response code from the server.
    - statusText: It contains the http response string from the server.responseText: It contains the response in text format from the server.
    - responseXML: It contains the response Xml from server.
    - getAllResponseHeaders: This property returns all the headers name as string.
    - getResponseHeader: It takes name of header and returns the text value of header.
    - setRequestHeader: It is used for setting the value of request header.
    - overrideMimeType: This property is used to set the mime type which is used to treat the response data-type to be treated as Text or XML type

**ANS 5-:** The common AJAX frameworks are-:

* Prototype
* Moo tools
* Axios
* Ext js
* Dojo tool kit

**ANS 6-:**

Javascript-: Javascript is a dynamic and interpreted computer language that is embedded with HTML for doing interacting with the user and making the webpage dynamic. It performs client side operations and makes a request to the server. It is a open source language is provides validation on a client side.

Ajax -: Ajax stands for Asynchronous Javascript and XML. Instead of a single technology like JavaScript, Ajax is a group of technologies such as html, DOM for interaction purpose etc.They increase the pace, efficiency, and speed of the websites, making them more user-friendly .They work on the server-side and also be used for standalone applications.It does all the work of the server- side including sending and receiving information from the server .