SCRIPTING LANGUAGE – 2

Final Exam

Ques1. What is javascript language? Why javascript is popular?

Ans1. JavaScript was introduced in 1995 as a way to add programs to web pages. JavaScript is a scripting or programming language that allows you to implement complex features on web pages.

Javascript is popular because of the following reasons:-

1. Scaleable

It may not have the high performance features of C or Java but its lightweight nature makes it easy to run in parallel. **Making it well suited to run on a large array of cheap computers. And since horizontal scaling is generally better than vertical scaling,** this is a big plus.

2. Asynchronous

JavaScript offers a better solution to blocking operations. **JavaScript solves blocking operations with callbacks and promises** giving the programmer control of the flow of execution.

3. Something for everyone

JavaScript implements multiple paradigms, procedural, oop and functional. This mix gives everyone some of what they want. Languages like Go or Haskell, fail at this and it is therefore unlikely that either will ever be as popular as JavaScript is now.

4. Runs on the web

JavaScript is the primary language of a little bit of tech called the world wide web. It is practically speaking the only language that runs in the browser. It now also runs everywhere else from small chips to powerful servers. **Being able to run in both the client and server has opened up new patterns** where code can be shared between the front and the back end.

5. Performance

JavaScript is not the fastest language but it is fast. **This combined with scaleability, asynchronicity and ease of use makes JavaScript ideal for most tasks.**

Ques2. What are cookies?

Ans2. An HTTP cookie (web cookie, browser cookie) is a small piece of data that a server sends to the user's web browser. The browser may store it and send it back with later requests to the same server. Typically, it's used to tell if two requests came from the same browser — keeping a user logged-in, for example.

Cookies are mainly used for three purposes:

1. Session management
2. Personalization
3. Tracking

Ques3. What is jQuery?

Ans3. jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. jQuery, at its core, is a Document Object Model (DOM) manipulation library.

Ques4. What is CDN?

Ans4. A content delivery network (CDN) refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content. A CDN allows for the quick transfer of assets needed for loading Internet content including HTML pages, javascript files, stylesheets, images, and videos.

Ques6. How to get value of an input tag having id = 'name' using jQuery. Only write one liner code.

Ans6. $('#name').val();

Ques7. Write a one liner code to set a value(John Doe) of an input tag having id='name' using jQuery.

Ans7. $('#name').val('John Doe');

Ques10. What is JSON and XML. Which one is better and why? Explain.

Ans10. JSON:- JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent.

Example: {

name: "John",

age: 31,

 city: "New York"

};

XML:- Extensible Markup Language (XML) is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable. XML was designed to store and transport data. It was designed to be self-descriptive.

Example:

-<note>

   <to>Tove</to>

   <from>Jani</from>

   <heading>Reminder</heading>

   <body>Don't forget me this weekend!</body>

  </note>