1 Why is it useful to encapsulate JavaScript code in a module as described in chapter 10 of Eloquent JavaScript?

The structure of your code will be better so it's nice and easy to read and debug. It also makes it easier to use external libraries just like libraries

2 Describe what asynchronous programming is and how it differs from the style of programming you used in C and Python.

In other words not synchronous, so the tasks arent happening at the same time (which costs more machine power). Instead it's interweaved. When using python, tasks run at the same time which costs more processing power.

3 Is JSON valid JavaScript? Describe the differences between JavaScript and JSON.

They are similar, but not entirely the same. In JSON all keys must be quoted, while in javascript, which has object literal notation, this isn't necessary. Also JSON is a string representation of an object and a data interchange format.