**JsSample Exam**

**Q1)**

1. Javascript engine has two parts the Heap and Call Stack , and the engine has some helpers named Web APIs and Callback Queue. Since JavaScript is synchronous and single-threaded language where the main thread JavaScript code is run, runs in one line at a time manner and there is no possibility of running code in parallel. The event loop runs continuously inside the JavaScript process. During each loop iteration, it takes one task out of the queue (if the queue is empty, it waits until it isn’t) and executes it. That task is finished when the call stack is empty and there is a return. Control goes back to the event loop, which then retrieves the next task from the queue and executes it. And so on.
2. adding at the beginning using Unshift() Method ; adding at the end using Push() method, and also by using Splice() method ex : { arr.splice(arr.length,0,the element I want to add) }.

**Q2)**

1. 3
2. 0

1

2

3

4

1. [‘baz’]
2. 1

Hello

True

1. True

[[‘carName’,’Bmw’] ,[‘carPrice’ , 1000000]]