Server Developer - Assignment

Javascript:

1. Explain event loop with an example ?

2. Explain the issue of callback hell and how it can be avoided with an example?

3. What is module.exports ?

4. Write an implementation of a function isInteger(x) that determines if x is an integer ?
Use Mocha (or any testing framework) to test the function

5. Explain closure with an example ?

6. Explain difference beween == and === ?

Computer science:

7. What is a semaphore ?

8. What is a collision in a hash table ?

9. When do you use heap sort ? Is there a scenario where you use insertion sort over
heap sort ?

10. What happens when an user types https://www.google.com in the browser ?

11. What in your opinion is a good code ?

12. What is garbage collection ?