

Topic: 1.2.3 Client and Server-Side Scripting

Computer Science (9608)

May/June 2015.P11-Specimen Paper

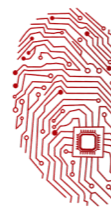
4 The website www.checkyourwellbeing.com offers help and advice about personal well-being.

The website has a link – ‘Calculate my BMI’ – that users can click to work out their ‘Body Mass Index’.

When the ‘Calculate my BMI’ link is clicked on the client computer, this webpage is requested.

```
1  <html>
2  <head>
3  <title>Body Mass Index</title>
4
5  </head>
6
7  <body>
8  Calculate my body mass index
9
10 <Script Language = "JavaScript">
11
12 var myWeight = prompt("Enter your weight (in kg.)", "");
13
14 var myHeight = prompt("Enter your height (in m.)", "");
15
16 var myBMI = myWeight / (myHeight * myHeight);
17 myBMI = myBMI.toFixed(2)
18
19 alert("My calculated BMI is ..." + myBMI) ;
20
21 if (myBMI < 18.5)
22 {
23     alert("UNDERWEIGHT") ;
24 }
25
26 if (myBMI > 25)
27 {
28     alert("OVERWEIGHT") ;
29 }
30 if (myBMI >=18.5 && myBMI<=25)
31 {
32     alert("WITHIN RANGE")
33 }
34
35 </Script>
36
37 </body>
38 </html>
```





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Loading the webpage produced this sequence of dialogue boxes:



(a) Which lines in the webpage script are JavaScript code? [1]

(c) By studying the web page script and its use, what is the use in JavaScript of:

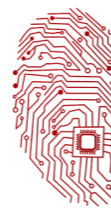
- (i) the prompt function? [2]
- (ii) the alert function? [2]

(e) Put five of these statements in the correct sequence to describe how the content of the page shown is displayed by the client computer's browser software.

Two of the statements will not be used.

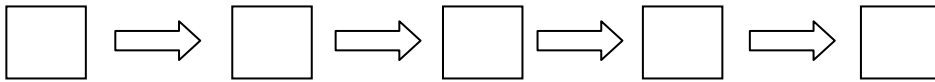
- A. The client computer processes the JavaScript code.
- B. The page content is transmitted to the client computer.
- C. The page is displayed on the client computer.
- D. The user clicks on the hyperlink and the web page is requested from the network file server.
- E. The web server processes the JavaScript code.
- F. The user clicks on the hyperlink and the web page is requested from the www.checkyourwellbeing.com web server.
- G. The server finds the web page.





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The sequence is: (fill in the letters)



[5]

(f) How is this JavaScript code run?

[1]

(g) The web developer tested the JavaScript code without involving the web server.

Explain how this is possible.

[1]

