



Sri Lanka Institute of Information Technology

**B. Sc. Special Honours Degree/ Diploma
in
Information Technology**

**Final Examination
Year 1, Semester II(2019)
June Intake**

IT1100 - Internet and Web Technologies

Duration: 02 Hours

Instruction to Candidates:

- This paper is preceded by a 10-minute reading period. The supervisor will indicate when answering may commence.
- This paper has 03 questions. Answer all questions.
- Provide answers on the answer booklet given.
- Total marks 100.
- This paper contains 05 pages including the Cover page.

Question 1

(30 Marks)

- a) “*JavaScript and PHP are loosely typed languages*”

Is the above statement true? Justify your answer with the help of proper example.
(4 marks)

- b) Explain the underlined parts of the following example?

Example:

ftp://ftp.funet.fi:8080/pub/standards/RFC/rfc959.txt

(4 marks)

- c) What the difference between LAN and WAN? Compile your answer according to the following table.

(12 marks)

| | LAN | WAN |
|---------------|-----|-----|
| Definition | | |
| Bandwidth | | |
| Connection | | |
| Problems | | |
| Ownership | | |
| Set-up & Cost | | |

- d) Describe the term “*Responsive Web Design*”. State why it’s important in web development.

(4 marks)

- e) What is a protocol? List some protocols which could be used for below purposes

- Web communication
- File sharing
- E-Mail

(6 marks)

Question 2

(30 Marks)

- a) List some changes you could do on a website to make it more visible in search engine (SEO).
(6 Marks)
- b) “**Web crawling**” is a process maintained by search engine to get the optimal result from this what are the policies available? Explain at least three.
(12 marks)
- c) List six types of social media with their purpose and mention two example for each.
(6 Marks)
- d) What are the main types of Internet Security attacks? Explain two of them.
(6 Marks)

Question 3**(40 Marks)**

Study the following source code ("draw_table.html") and answer the given questions (a-e).

| Line No. | Source code |
|----------|---|
| i. | <html> |
| ii. | <head> |
| iii. | <title> </title> |
| iv. | <script> |
| v. | function drawTable(){ |
| vi. | var num=document.getElementById("inputTxt_1").value; |
| vii. | num=parseInt(num); |
| viii. | document.write("<table border='5'>"); |
| ix. | document.write("<tr>"); |
| x. | for(i=1;i<=num;i++){ |
| xi. | document.write("<td>~~~~~"+i); |
| xii. | document.write("~~~~~</td>"); |
| xiii. | } |
| xiv. | document.write("</tr>"); |
| xv. | document.write("</table>"); |
| xvi. | } |
| xvii. | </script> |
| xviii. | </head> |
| xix. | <body> |
| xx. | Input a number 1:<input type="text" id="inputTxt_1"> |
| xxi. | <input type="button" value="DRAW TABLE" onclick="drawTable()> |
| xxii. | </body> |

a) Explain the purpose of the following source codes

(12 marks)

| | Line No. | Source code |
|----|----------|---|
| 1. | vi | var num=document.getElementById("inputTxt_1").value; |
| 2. | xx | Input a number 1:<input type="text" id="inputTxt_1"> |
| 3. | xxi | <input type="button" value="DRAW TABLE" onclick="drawTable()> |

b) Draw the output of the code ("draw_table.html") if user input "5" in to the textbox "inputTxt_1".

(08 marks)

- c) Rewrite the function “drawTable()” given in (“draw_table.html”) to get the following outputs (write 03 independent functions separately).
1. Same output (question a) as a single column.
(04 marks)
 2. Write the javascript code to include an image (“apple.jpg”) inside each cell.
(03 marks)
- d) What is the HTML code to link an external JavaScript (“draw_function.js”)?
(03 marks)
- e) Modify the HTML code (question c) to input another number. Add a textbox (“inputtxt1”). Now, user can input two numbers, “inputtxt1” and “inputtxt2”. Update the function (drawTable ()) to draw a table using inputtxt1 as number of columns and inputtxt2 as number of rows.
(10 marks)

End of the Question Paper