



Sri Lanka Institute of Information Technology

B. Sc. Special Honours Degree/ Diploma

in
Information Technology

Final Examination
Year 1, Semester II (2018)

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 for the question 1 and 2 on the answer booklet given. Write answer for the question 3 on the Appendix A and attach to the answer booklet.
- Total marks 100.
- This paper contains 03 pages including the Cover page.

Question 1

(30 Marks)

- a) Explain what is a data network, then differentiate between LAN, WAN, and Internet.
(4 marks)
- b) What are the benefits of having a distributed systems for the users and web engineers?
(4 marks)
- c) Illustrate and explain “**3-tire architecture**” for web applications.
(6 marks)
- d) State the main goal of responsive web design?
(4 marks)
- e) Compare the use and the code structure of two markup languages, XML and HTML.
(6 marks)
- f) What is DOM (Document Object Model) in JavaScript?
(6 marks)

Question 2

(35 Marks)

- a) Explain what an e-commerce system is, indicating the use of web-forms in them.
(3 marks)
- b) Describe the need of “method” and “action” attributes of HTML form element. Differentiate the GET and POST form methods, giving examples of their use.
(12 marks)
- c) State social media types you can find in WWW, explaining the speciality of each and also provide examples for each.
(10 marks)
- d) Describe the **confidentiality, integrity and availability (C.I.A)** model related to the Internet security.
(6 marks)
- e) Explain what is meant by “**Ransomware**”.
(4 marks)

Question 3**(35 Marks)**

You are asked to implement a simple webpage named as “**html_css_js_demo.html**” with four buttons. These four buttons use different colors for their name attribute. You can click any button and change the background color of the page into the color of the clicked button’s name. Refer the Tasks table given below and complete the Appendix A (write codes to implement the tasks given in the table below).

NOTE: Attach Appendix A to the answer booklet given.

HINT:

Use the JavaScript “`document.body.style.backgroundColor`” to set a background color for an HTML document.

Line No.	Tasks	
1	Make the version of the “ html_css_js_demo.html ” page as a HTML5.	1 marks
5	Create a class “ success ” and set page background color in to <i>green</i> .	2 marks
6	Create a class “ info ” and set page background color in to <i>pink</i>	2 marks
7	Create a class “ warning ” and set page background color in to <i>orange</i> .	2 marks
8	Create a class “ danger ” and set page background color in to <i>red</i> .	2 marks
11	Declare a JavaScript function “ changeBGColor() ”. This function should ready to accept a parameter “ <i>n</i> ”	2 marks
13	Change the background color of the page, to the color passed into the function, when called.	4 marks
19	<ul style="list-style-type: none"> Create a button with name “green”, class and caption “success” Call the function “changeBGColor()” on click by passing the value of the button name.. 	3 marks 2 marks
20	<ul style="list-style-type: none"> Create a button with name “pink”, class and caption “info” Call the function “changeBGColor()” on click by passing the value of the button name.. 	3 marks 2 marks
21	<ul style="list-style-type: none"> Create a button with name “orange”, class and caption “orange” Call the function “changeBGColor()” on click by passing the value of the button name.. 	3 marks 2 marks
22	<ul style="list-style-type: none"> Create a button with name “red”, class and caption “Danger” Call the function “changeBGColor()” on click by passing the value of the button name.. 	3 marks 2 marks

End of the Question Paper

Appendix A

Index No.

Line Number	Code
1	
2	<html>
3	<head>
4	<style>
5	
6	
7	
8	
9	</style>
10	<script>
11	
12	var btnID=n;
13	
14	}
15	</script>
16	</head>
17	<body>
18	<h1>Alert Buttons</h1>
19	
20	
21	
22	
23	</body>
24	</html>