



İTÜ Computer Engineering Department

Introduction to Information Systems and Computer Engineering Final Exam BIL103E

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Student ID: _____ Name Surname: _____

Signature : _____ Instructor: _____

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ
Points	6	6	6	6	6	6	10	10	10	10	10	10	13	105
Score														

1. Which of the following elements are not part of a document's **content**? Explain your answer.

- title
- encoding
- paragraph
- font
- footnote
- numbered item list
- page margins
- page numbers

2. Which of the following are NOT operating systems? Explain your answer.

- Windows 7
- Linux
- Ubuntu
- Mac OS X
- iPad
- Android

3. Which of the following formats are suitable for vector graphics?

- JPG
- PNG
- GIF
- SVG
- PDF

4. Which of the following are NOT among the responsibilities of the operating system?
- To run multiple programs at the same time on the computer.
 - To control access to the hardware devices attached to the computer.
 - To control access to the files on the computer.
 - To provide applications that users will need in their day-to-day work.
 - To make it easier to develop software by providing an abstraction over the hardware.
5. Consider the spreadsheet below. Write down the contents (both formulas and values) of the cells D1 and D2 when the user copy-pastes C1 into D1 and C2 into D2.

	A	B	C	D	...
1	5	10	=A1+B1		
2	7	12	=\$A2+B2		
...					

6. Which of the following HTML elements are self-closing (do not have opening-closing tags)?
- body
 - meta
 - p
 - img
 - hr
 - br
 - td
7. Write the HTML code that will generate a link to the address "<http://www.cs.itu.edu.tr/>" where the link will consist of an image (image file named "arrow.png") and the text "İTÜ Computer Engineering" displayed in black against a green background. The result will look like this (except coloring):
- İTÜ Computer Engineering

8. a. Write the LaTeX code that will produce the output given below. Note the alignments on the columns.

My table	col1	col2
row1	cell11	cell12
row2	cell21	cell22
row3	cell31	cell32

b. Write the HTML code that will produce the same output as in 8a.

9. Write an HTML form that will let the user select a month name from a drop-down list and submit it. The default month must be “*January*”.

```
<form name="exam" action="process.php" method="post">
  <!-- month selection -->


  <!-- submit the form-->
  <input type="submit" value="Submit" />
</form>
```

10. Add a drop-down list that will let the user select a day value (from 1 to 31) to the form you have written in Question 9. Use a PHP loop to generate the necessary code.

```
<form name="exam" action="process.php" method="post">
  <!-- day selection -->


  <!-- month selection -->
  <!-- there will be your code in Question 9 here. Do NOT write it again. -->
  <!-- submit the form-->
  <input type="submit" value="Submit" />
</form>
```

11. Write the PHP script “*process.php*” that will display the date as selected by the user using the form you have written in Question 10. Explain your answer.

12. What will be the output of the following PHP code? Notes: The *explode* function splits a string (its second parameter) into an array of strings using its first parameter as the separator. The *implode* function does the opposite. The *strtoupper* function converts a string into uppercase. Explain your answer.

```
<?php
    $a = "José Antonio Domínguez Banderas";
    $b = explode(" ", $a);
    $s = strtoupper($b[count($b)-1]);
    $b[count($b)-1] = "";
    echo implode(" ", $b) . " " . $s;
?>
```

13. You are expected to write a PHP function ***findAvg***. This function should accept an array as an input parameter and return the average of the numbers in the array.