ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
Department of Computer Science and Engineering (CSE)

MID SEMESTER EXAMINATION   **WINTER SEMESTER, 2016-2017**
DURATION: 1 Hour 30 Minutes   **FULL MARKS: 75**

CSE 4539: Web Programming

Programmable calculators are not allowed. Do not write anything on the question paper.
There are **4 (four)** questions. Answer any **3 (three)** of them.
Figures in the right margin indicate marks.

---

1. a) What is white space collapsing? Mention 6 HTML tags which updates text in an HTML page and what are their effects on the text.   1+12

    b) Write necessary only <table> codes for HTML to generate the following output: 12

Period	1	2	3	4	5	6
Time	08:00-08:30	08:30-09:00	09:00-09:30	09:30-10:00	10:00-10:30	10:30-11:00
Monday	CSE 4539				CSE 4508 (A)	
Tuesday		CSE 4501			CSE 4508 (B)	
Wednesday	CSE 4501			Break		
Thursday		CSE 4539			CSE 4508 (C)	
Friday	CSE 4505					

2. a) Explain the structure of a form (action and method attribute).   6
    b) Mention different types of input type (at least 5) of a form and explain their usage.   10
    c) Explain <Meta> tag and all of its' attributes.   9

3. a) Describe the BOX model of CSS. Write short notes on CSS Pseudo-Class and CSS Pseudo Element.   4+6

    b) What would be the color of text "Web Programming" for the code fragment of the following Figure 1. Give reasons for your answers.   1+2

```
<head>
<style>
  ul#awesome #must-buy {
     color: red;
  }
  .favorite span {
     color: blue!important;
  }</style>
</head>
<body>
  <ul class="shopping-list" id="awesome">
     <li><span>Milk</span></li>
     <li class="favorite" id="must-buy"><span
     class="highlight"> Web Programming </span></li>
  </ul>
</body>
```

Figure 1: Code fragment for Question 3(b)

c) Write short notes on the following CSS positioning schemes that are used for controlling the layout of a page: 4x3
    i.   Static Positioning
    ii.   Fixed Positioning
    iii. Absolute Positioning
    iv. Relative Positioning

4. a) Use any loop to print out a table of Fahrenheit and Celsius temperature equivalents from -50 degree F to +50 degree F in 5 degree increments. On the Fahrenheit temperature scale, water freezes at 32 degree and boils at 212 degree. On the Celsius scale, water freezes at 0 degree and boils at 100 degree. So, to convert from Fahrenheit to Celsius, you subtract 32 from the temperature, multiply by 5 and divide by 9. To convert from Celsius to Fahrenheit, you multiply by 9, divide by 5 and then add 32.   7

b) Write down necessary PHP code to generate a Fibonacci sequence up to 20th Fibonacci number.   7

c) Write down necessary PHP code to generate prime sequence up to 100th Prime number.   11