

Name: _____

Student ID: _____ Section: _____

BTI220 – Test #2

(Monday, March 31 2014) [55 marks]

Special Instructions:

1. Answer all questions on the exam booklet(s) provided.
2. Return the exam paper and booklet(s).
3. Messaging/Internet devices (eg iPad, iPhone, Tablets, etc) are not allowed.
4. You may use a paper foreign-language dictionary.

This test includes 2 pages of *questions*, and 4 pages of *reference sheets*.

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Develop a web page and implement client side validation by following the specifications on page 3.

For the features without any specification, you can take the default values if applicable or give your own meaningful values.

You are required to use:

- HTML5, (file name: test2.html)
- external CSS3 file (file name: test2.css),
- Also you are allowed to use internal/inline CSS if you consider it more appropriate.
- external Javascript file (file name: test2.js) for user input validation.

Sunday, March 30, 2014 4:44:34 PM

Time Table

| Time | Mon | Tue | Wed |
|---------------|--------|--------|--------|
| 9:50 - 10:40 | BTP200 | BTP200 | BTP100 |
| 10:45 - 11:35 | | BTI220 | |
| Afternoon | BTP100 | | BTI220 |

*Name: *Program:

*My favorite subject(s):

- a. ☐ BTP100
b. ☐ BTP200
c. ☐ BTI220

Specifications:

1. The document title: "Test #2". [1 mark]
2. Current date and time displays on left top corner of the page, in locale string, color blue. [3 marks]
3. "Time table" is defined as a table. [3 marks]
4. "Time table" width 40% of the page in horizontal direction. It is horizontally centered. [2 marks]
5. Caption "Time table" is defined as a table caption. It is bold, font size 20 points, color: #cc55ff; [4 marks]
6. Time table header (first row of the table) background yellow, the content is bold, color red. [3 marks]
7. The "Time" column (i.e., the left-most column with time period like "9:50-10:40") has the background color: #9933cc, the text is displayed as black and weight 800. [3 marks]
8. The rest of the table (e.g., table cells displaying BTP200) has the background color #ccddff, cell height 50 pixels, text color: green. [3 marks]
9. Below the Time Table is a form. Provide complete definition for a form, you decide the attributes. [4 marks]
10. "Name" is a text box, size of 30 characters. [2 marks]
11. "Program" is a drop down menu with three options: BSD, IFS, CPA. Default is "BSD" [5 marks]
12. The checkbox is displayed as a list. Provide proper styling for the list and proper definition for the checkbox. [5 marks]
13. "Guess" is a submit button. Click this button, it will validate user's input by the following rules. If all the fields are valid based on the given rules, the data will be submitted to "test2.php". Invalid input will be asked to correct. The fields and validation rules are as follows: [3 mark]
 - a. Validate the "Name" field, based on the rules: [5 marks]
 - i. Required. User must input something, cannot leave it blank.
 - ii. It must include at least an alphabet character, e.g., 'A' - 'Z', 'a' - 'z'.
 - iii. If name is invalid, display meaningful error message, focus and select the field for user to correct.
 - b. Validate the "subject": [5 marks]
 - i. User must select one.
14. Reset button, reset the form to default values. [1 mark]
15. Structures and syntax [3 mark]

You are welcome to ask the instructor (NOT your neighbor) for further clarification.

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Reference Sheet:**ASCII CODE:**

| | | | | | | | | | | | | |
|-------|-----|---------------------|-----|-------------|-----|-----|-----|-----|--|-----|-----|-----|
| space | ... | Apostrophe (') | ... | Dot (.) | ... | 'A' | ... | 'Z' | | 'a' | ... | 'z' |
| 32 | ... | 39 | ... | 46 | ... | 65 | ... | 90 | | 97 | ... | 122 |

HTML5 TAGS (in alphabetical order)

| TAG | ATTRIBUTES | TAG | ATTRIBUTES |
|---------------------------|-----------------------------|-------------------|---|
| <!-- comment --> | | | src, alt, title, height, width, usemap, align, border |
| <a> | href, name, target | <input /> | type, size, name, maxlength, value, checked |
| <address> </address> | | | type, value |
| <area /> | shape, coords, href, target | <link /> | rel, href, type |
| <article> </article> | | <map></map> | Name |
| <aside> </aside> | | <mark> </mark> | |
| <audio> </audio> | controls | | |
| | | <option></option> | Selected |
| <big></big> | | <p></p> | |
| <blockquote></blockquote> | | <pre></pre> | |
| <body></body> | | <script></script> | Src |
| <canvas> </canvas> | Id, width, height | <section> | |
| <caption></caption> | align | <select></select> | name, size, multiple |
| <div></div> | | | Style |
| <dl></dl> | | | |
| <dt></dt> | | | |

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| | | | |
|----------------------------|--|------------------------|------------------|
| | | <style></style> | Type |
| <footer> | | <table></table> | |
| <form></form> | name, action, method, onsubmit, onreset, | <td></td> <th></th> | |
| <h#></h#> (# = 1 to 6) | align | <textarea></textarea> | name, rows, cols |
| <head></head> | | <title></title> | |
| <header> | | <tr></tr> | |
| <hgroup> | | <tt></tt> | |
| <hr /> | | <u></u> | |
| <html></html> | | | Type |
| <i></i> | | <video> | |

| | | | | |
|-----------|--------|-------|------|------|
| Character | Space | & | < | > |
| Code | | & | < | > |

| |
|---|
| CSS |
| <style type="text/css">.....</style> |
| <link type="text/css" href="stylesheet.css" /> |
| CSS PROPERTIES |
| background / background-color / background-image / background-position/ background-repeat/ background-size/ background-origin |
| font/ font-family/ font-size / font-weight / font-style/ text-align/ text-indent/ text-decoration/ text-transform/ font-variant/ text-shadow/ word-wrap |
| margin/ margin-top/ margin-right/ margin-bottom/ margin-left |
| border/ border-style / border-top-style/ border-right-style/ border-bottom-style/ border-left-style/ border-width / border-color /border-collapse/ border-radius/border-top-left-radius/ border-top-right-radius/ border-bottom-right-radius/ border-bottom-left-radius/ box-shadow |

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| |
|--|
| padding/ top-padding / bottom-padding / right-padding / left-padding |
| list-style-type/ list-style-image |

| | |
|---------------------------------|--|
| JavaScript | |
| Built-in Object – String | |
| Properties | Length |
| Methods | charAt(..), charCodeAt(..), indexOf(..), lastIndexOf(..), split(..), substr(..), substring(..), toLowerCase(), toUpperCase() |
| Date Object – new Date() | |
| Methods | getDate(), getDay(), getMonth(), getFullYear(), getHours(), getMinutes(), getSeconds(), getMilliseconds() |
| Array Object: | |
| Declaration: | <code>var name_of_array = new Array(number_of_elements);</code> |
| Properties | Length |
| Methods | concat(), join(), toString(), indexOf(), lastIndexOf(), reverse(), sort(), pop(), push(), shift(), unshift(), slice |
| Number Object: | |
| Properties | MAX_VALUE, MIN_VALUE, NEGATIVE_INFINITY, POSITIVE_INFINITY, NaN |
| Methods | toFixed(), toPrecision(), valueOf(), toString() |
| Regular Expression: | |
| declaration | <code>var patt=new RegExp(pattern,modifiers);</code> <code>var patt=/pattern/modifiers;</code> |
| Properties | |
| Methods | test(), exec(), string.match(Regular Expression) |
| Math Object | |
| Methods | Math.ceil(a), Math.floor(a), Math.max(a,b), Math.min(a,b), Math.pow(a,b), Math.round(a), Math.sqrt(a) |
| Built-in Methods | |
| | eval(...), isNaN(...), parseInt(...), parseFloat(...), escape(...), unescape(...) |

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| | |
|-----------------------------------|---|
| Browser Object | |
| Property | closed, document, history, location, navigator, name |
| Methods | open(), close(), confirm(), focus(), blur(), moveBy(), moveTo() |
| Browser Object – Navigator | |
| Property | appName, appVersion, cookieEnabled, platform, userAgent, |
| Methods | javaEnabled() |
| Browser Object – History | |
| Property | length |
| Methods | back(), forward(), go() |
| Browser Object- Location | |
| property | host, hostname, href, port, protocol |
| | |
| DOM Object | |
| Property | form, lastModified, |
| Methods | write(), writeln(), getElementById(), getElementsByTagName(), |
| | |
| Event | |
| Event Handler | onchange, onclick, ondblclick, onfocus, onkeydown, onkeypress, onkeyup, onload, onunload, onmousedown, onmouseover, onmouseout |
| Canvas | |
| Property | fillStyle, font, |
| Methods | getContext(), fillRect(), moveTo(), lineTo(), stroke(), fillText(), strokeText(), createLinearGradient(), createRadialGradient(), addColorStop(), drawImage() |