



UNIVERSITY OF COLOMBO, SRI LANKA



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2017 – 1st Year Examination – Semester 1

IT1305 – Web Application Development I Multiple Choice Question Paper

28th May, 2017 (TWO HOUR)

Important Instructions:

- The duration of the paper is 2 (two) hour.
- The medium of instruction and questions is English.
- The paper has 45 questions and 10 pages.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All questions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from 0 (All the incorrect choices are marked & no correct choices are marked) to +1 (All the correct choices are marked & no incorrect choices are marked).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper.

 If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.

(a) TCP	(b) IPv6	(c) PPP
(d) IPv4	(e) HTTP	
Which of the following st	tatements is/are true with respe	ct to the Internet and the World Wide We
(a) The terms Internet	and World Wide Web can be used	to refer to the same thing.
(b) DNS is the acronyr	n for Domain Name System.	
other web resources		padable files, source documents, definition w.
(e) URI and URL may	refer to the same globally unique i	dentifier for a resource.
Which of the following is	s/are (a) mark-up language(s) on	the World Wide Web?
(a) CSS	(b) JavaScript	(c) HTML
(d) XHTML	(e) URI	
` '	as 192.248.22.125 cannot be used main name that has at least one ass	in place of the URL <i>ucsc.cmb.ac.lk</i> . ociated IP address.
Which of the following is	s/are (an) original generic top-le	evel domain(s)?
	(b) .int	(c) .lk
(a) .com		
(a) .com (d) .mil	(e) .info	
(d) .mil	N.	an be used to deliver messages to two or
(d) .mil Which of the following is	N.	can be used to deliver messages to two or
(d) .mil Which of the following is more receivers?	s/are (a) routing scheme(s) that o	
(d) .mil Which of the following is more receivers? (a) unicast	s/are (a) routing scheme(s) that of the control (b) anycast	
(d) .mil Which of the following is more receivers? (a) unicast	s/are (a) routing scheme(s) that of the control (b) anycast	
(d) .mil Which of the following is more receivers? (a) unicast	s/are (a) routing scheme(s) that of the control (b) anycast	

- 7) Which of the following information could be used in a routing algorithm to select the best route?
 - (a) Source network interface card speed
 - (b) Hop count between source and destination
 - (c) Network delay between source and destination
 - (d) Destination network interface card type
 - (e) The communication cost

Use the following HTML5 code to answer question numbers 8 - 10.

```
<HTML>
<HEAD>
        <script type="text/javascript">
                function checkNodeType()
                var tag=document.getElementById("P2");
                var type=tag.nodeType;
                var name=tag.nodeName;
                var att=tag.getAttribute("align");
                document.write(type + ", " + name + ", " + att);
        </script>
</HEAD>
<BODY>
        <P id="P1">Text,<B> Some Text,</B> <I> More Text,</I> A bit more Text<BR/></P> <P id="P2" align="center" value> Welcome </P>
        <INPUT id="B1" type="button" onClick="checkNodeType();" value="Check Node">
</BODY>
</HTML>
```

8) Which of the following is/are (a) child node(s) of the parent node <P> with id P1 in the given code?

(a)

(b) < I >

(c) < BODY >

(d) Text,

- (e) Some Text,
- 9) Which of the following would be displayed on the browser when the "Check Node" button is clicked?
 - (a) P, paragraph, align
- (b) 0, paragraph, center
- (c) 1, P, align

- (d) P, < P>, center
- (e) 1, P, center
- 10) Which of the following is/are (an) empty element(s) in the given code?
 - (a) <BODY >

(b) < P >

(c) <INPUT>

(d) < BR/>

(e) <I>

1	Which of the following statements	s is/are true with respect to HTML	5 elements?
	(a) Elements and attributes are	predefined in HTML.	
	(b) Elements and attribute are	case sensitive.	
	(c) All HTML attributes are co	ommon to all HTML elements.	
	(d) Attributes can be used to sp	pecify properties of an HTML elem	nent.
	(e) Attributes can be used to sp	pecify behaviour of an HTML elen	nent.
1	Which of the following statements	s is/are true with respect to HTML	.5 elements?
	(a) The DOCTYPE element sp	pecifies the DTD definition used by	the document.
	(b) The DOCTYPE element ca	nn be contained either in the HEAD	O or BODY element.
	(a) The DOCTYPE element is	an SGML element.	
	(b) The browser checks the coo	de according the rules in the DOCT	ΓΥΡΕ declaration.
	(c) The correct representation	of the DOCTYPE element is <do< td=""><td>CTYPE HTML>.</td></do<>	CTYPE HTML>.
1	Which of the following is/are (a) of	container element(s) in an HTML of	document?
	(a) 	(b) <title></td><td>(c) <LINK></td></tr><tr><td></td><td>(d) <BODY></td><td>(e) <HR></td><td></td></tr><tr><th></th><th>(a) <HEAD></th><th>(b) <BODY></th><th>(c) <TITLE></th></tr><tr><td></td><td>(d) <SCRIPT></td><td>(e) <STYLE></td><td></td></tr><tr><td>,</td><td>Which of the following character</td><td>encodings correspond to the four c</td><td>haracters <, >,& and 'respectively?</td></tr><tr><td></td><td>(a) <, >, &, ',</td><td>(b) gt, lt, amper, quote</td><td>(c) < > & '</td></tr><tr><td></td><td>(d) 1t, gt, amper, quote,</td><td>(e) < > \$amp; &quote</td><td></td></tr><tr><td>,</td><td>Which of the following elements i</td><td>is/are required for creating a defini</td><td>tion list in HTML5?</td></tr><tr><td></td><td>(a) DL</td><td>(b) DT</td><td>(c) DD</td></tr><tr><td></td><td>(d) DI</td><td>(e) LI</td><td></td></tr><tr><td></td><td>Which one of the following codes hyperlink created by the code give</td><td>en below?</td><td>at can be directly navigated to using</td></tr><tr><td>4</td><td>Go to the Bo</td><td>Ctom of the Page(/A/</td><td></td></tr><tr><td>•</td><td><pre>Go to the Bo (a) </pre></td><td>(b) </td><td>(c) </td></tr></tbody></table></title>	

Use the following HTML5 code to answer question numbers 18 - 24. The file name of this document is Example.html.

```
<HTML>
<HEAD>
<TITLE>Web Application Development Tutorials</TITLE>
</HEAD>
<BODY>
<P>
       <IMG src="./images/web_dev_tools.jpg" alt="Web Dev Tools" width="500" height="450"
       border="0" usemap="#Map">
       <MAP name="Map">
               <AREA shape="circle" coords="95,180,63" href="./pages/CSS tutorial.html"</pre>
               target=" blank" tabindex="1">
               <AREA shape="circle" coords="419,224,61" href="../dpages/PHP_tutorial.php"</pre>
               target=" top" tabindex="2">
               <AREA shape="circle" coords="323,74,36" href="./pages/javascript_tutorial.html"</pre>
               tabindex="3">
               <AREA shape="rect" coords="127,44,244,149" href="./pages/HTML5 tutorial.html"</pre>
               target="_parent" tabindex="4">
       </MAP>
</P>
<P>Provide your feedback on the tutorial in the given form. </P>
<FORM name="feedback" method="post" action="../dpages/get feedback.php">
       <LABEL>Name<input type="text" name="txtname" id="txtname" value="Your Name" size="20"</pre>
       tabindex="5"></LABEL><BR/>
       <LABEL>Feedback<TEXTAREA name="txtxfeedback" id="txtxfeedback" cols="45" rows="5"</pre>
       tabindex="6"></TEXTAREA></LABEL><BR/>
       <LABEL>Rate</label>
       <LABEL><input type="radio" name="radio" id="rdorate" value="rdorate1"</pre>
       tabindex="7">V.Good</LABEL>
       <LABEL><input type="radio" name="radio" id="rdorate2" value="rdorate2">Good</LABEL>
       <LABEL><input type="radio" name="radio" id="rdorate3" value="rdorate3">Average</LABEL>
       <LABEL><input type="radio" name="radio" id="rdorate4" value="rdorate4">Poor</LABEL><BR/>
       <INPUT type="submit" name="btnsubmit" id="btnsubmit" value="Submit Feedback"</pre>
       tabindex="8">
       <INPUT type="reset" name="btnreset" id="btnreset" value="Reset" tabindex="9">
</FORM>
</BODY>
</HTML>
```

- When Example.html is loaded, which of the following will be displayed in the place where the image web_dev_tools.jpg should have appeared on the web browser, if the web_dev_tools.jpg is not found in the images directory?
 - (a) web dev tools.jpg
 - (b) Web Dev Tools
 - (c) Image not found.
 - (d) An Image icon
 - (e) Error 404

(a) open in	e page PHP_tutorial.php.	
(b) Open th	e page CSS_tutorial.html.	
(c) Open th	e page HTML5_tutorial.html.	
(d) Open th	e page javascript_tutorial.html.	
(e) No action	n will be invoked.	
What action w	ould be invoked if coordinates (340,80)) from the top left corner of the image is clicked?
(a) The pag	e will open in the current window.	
(b) The pag	e will open in the parent window.	
(c) The pag	e will open in a new window.	
(d) The pag	e will open in the top most window.	
(e) No action	n will be invoked.	
Thich of the for spected?	ollowing statements is/are true with res	spect to the Example.html document if it is rendered as
(a) The pag	es folder is located in the same director	ry as Example.html.
(b) The dpa	ges folder is located in the same direct	ory as the parent directory of Example.html.
(c) The ima	ges folder is located in the same direct	ory as the parent directory of Example.html.
(d) When th	e tab key is pressed for the first time a	rectangle will appear with coordinates (127,44,244,149)
(e) When the	e tab key is pressed for the second tim	e a circle will appear with a radius of 63 pixels.
hich of the fo	ollowing attributes is/are used to transn	nit the checked radio type to the server?
(a) name	(b) id	(c) value
(d) checked	(e) rdorate	
ich of the fo	ollowing attributes is/are used to refer t	to the text type by a script on the server?
(a) name	(b) id	(c) value
(d) text	(e) input	
		ov with the label Name when Evample html is loaded on
Which of the form	ollowing will be displayed in the text beer?	ox with the label Name when Example.html is loaded on
		(c) txtname

19) What action would be invoked if coordinates (95,244) from the top left corner of the image is clicked?

(a) CODE	(b) TEXT	(c) EMBED
(d) CITE	(e) SCRIPT	
Consider the following HTM	ML5 code segment.	
ol start="5">		
	nformation Technology	
	nformation Systems	
/ol>		
Which of the following wou	ald be displayed on a browser by	this code?
(-)		
e. Bachelor of Information Tec		
f. Bachelor of Computer Scien g. Bachelor of Information Sys		
(b)		
vi. Bachelor of Information T		
vii. Bachelor of Computer Sci viii. Bachelor of Information S		
(c) 6. Bachelor of Information Tec	chnology	
7. Bachelor of Computer Scient8. Bachelor of Information Systems		
(d)		
5. Bachelor of Information Tec	chnology	
6. Bachelor of Computer Scien7. Bachelor of Information System		
(e)		
V. Bachelor of Information 7 VI. Bachelor of Computer Sci		
VII. Bachelor of Information S	Systems	
Which of the following is/ar	re (an) HTML5 physical style ele	ment(s) for formatting text?
(a) EM	(b) STRONG	(c) SUB
(d) B	(e) CODE	(0) 202
(d) D	(c) CODE	
Which of the following elen	nents is/are used to create column	headers in HTML5 tables?
(a) CAPTION	(b) TH	(c) HEADER
(d) THEAD	(e) CH	
Which of the Callerine 1	a anta/attributas assa b 1 4 1	on an amount in a familial and an art of the
which of the following elemables?	nems/aurioutes can be used to ch	ange properties of multiple columns in H
(a) COLGROUP	(b) COLGRUP	(c) COI
(a) COLGROUP (d) span	(b) COLGRUP(e) colspan	(c) COL

25) Which of the following elements is/are used to embed programme code in an HTML5 document?

(a) <audio></audio>	(b) <video></video>	(c) <embed/>
(d) <object></object>	(e) <media></media>	
Which of the following fiel HTML5 form?	ds is/are best suited for selecting	a single option from a set of options in an
(a) Radio button	(b) Check box	(c) Dropdown box
(d) Text box	(e) Field set	
Which of the following cod	es is/are (an) example(s) of Univ	ersal, Class and ID selectors respectively in
(a) .{font-family: sans	s-serif}, .intro{font-family:	<pre>sans-serif}, #myHead{font-family: sans-</pre>
(b) *{font-family: sans	s-serif}, h1.intro{font-family	<pre>/: sans-serif}, TD>b{font-family: sans-s</pre>
` / -		sans-serif}, H1+p{font-family: sans-se
<pre>(d) *{font-family: sans serif}</pre>	s-serif}, .intro{font-family:	<pre>sans-serif}, table b{font-family: sans-</pre>
•	s-serif}, h1.intro{font-family	<pre>/: sans-serif}, #myHead{font-family: san</pre>
(a) Internal	(b) Linking	(c) Importing
(d) Inheriting	(e) Inline	
	· · · · · · · · · · · · · · · · · · ·	ur background on a web browser?
	S codes would display a red color	ur background on a web browser?
Which of the following CS	S codes would display a red color	ur background on a web browser?
Which of the following CS:	S codes would display a red color 9000FF; gb(255,255,0);	ur background on a web browser?
Which of the following CS: (a) Backbround-color:#6 (b) Backbround-color:r6 (c) Backbround-color:r6	S codes would display a red color 9000FF; gb(255,255,0);	ur background on a web browser?
Which of the following CS: (a) Backbround-color:#6 (b) Backbround-color:r6 (c) Backbround-color:r6	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0);	ur background on a web browser?
Which of the following CSS (a) Backbround-color:#(b) Backbround-color:rg (c) Backbround-color:rg (d) Backbround-color:hs (e) Backbround-color:#	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0); FF0000;	ur background on a web browser? our gradient from blue to white in CSS?
Which of the following CSS (a) Backbround-color:#((b) Backbround-color:rg (c) Backbround-color:rg (d) Backbround-color:hs (e) Backbround-color:#	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0); FF0000;	our gradient from blue to white in CSS?
Which of the following CS: (a) Backbround-color:#6 (b) Backbround-color:r6 (c) Backbround-color:r6 (d) Backbround-color:h6 (e) Backbround-color:#6 Which of the following cod (a) background: -webkir	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0); FF0000; es will display a background color	our gradient from blue to white in CSS?
Which of the following CS: (a) Backbround-color:#6 (b) Backbround-color:r6 (c) Backbround-color:r6 (d) Backbround-color:#6 (e) Backbround-color:#6 Which of the following cod (a) background: -webkir6 (b) background: -moz-1:	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0); es will display a background color t-linear-gradient(top, #0000FF 96	our gradient from blue to white in CSS?
Which of the following CSS (a) Backbround-color:#(b) Backbround-color:rg (c) Backbround-color:rg (d) Backbround-color:#s (e) Backbround-color:#s Which of the following cod (a) background: -webkir(b) background: -webkir(c) background: -webkir(c) background: -webkir(c)	S codes would display a red color 2000FF; gb(255,255,0); gba(255,0,0,0.0); sla(165,35%,50%,0.0); es will display a background color t-linear-gradient(top, #0000FF 96	our gradient from blue to white in CSS? 90%, #FFFFFF 10%); %, #FFFFFF 10%); Left bottom, from(#000FF0), to(#FFFFFF))

(a) tile	(b) repeat	(c) repeat-x
(d) repeat-y	(e) repeat-xy	
Which of the following value	es may be assigned to the property	font-size in CSS?
(a) xxx-small	(b) small	(c) 20%
(d) larger	(e) 20px	
Which of the following value	es may be assigned to the property	font-style in CSS?
(a) small-caps	(b) bold	(c) italic
(d) condensed	(e) Verdana	
(b) The variables with the		re similar and can be used interchangeably.
(c) \\ is used for single lin	8	
(d) /* and */ is used for m	Č	
(d) /* and */ is used for m	Č	
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are	ultiple line commenting. default" are reserved words. e (a) special character(s) in JavaSc	
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a	ultiple line commenting. default" are reserved words. (a) special character(s) in JavaSc (b) \t	ript?
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are	ultiple line commenting. default" are reserved words. e (a) special character(s) in JavaSc	
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i	ultiple line commenting. default" are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s	
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i	ultiple line commenting. default" are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s	(c) \\
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript?	ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, asset	(c) \\ signment, comparison and logical operators
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript? (a) +, ++, >, ! (d) ++, +=, !=, &&	ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, as: (b) %, =, , == (e) *, ==, <>, !	(c) \\ signment, comparison and logical operators
(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript? (a) +, ++, >, ! (d) ++, +=, !=, && Which of the following codes document? (a) <body><script <="" src="e" td=""><td>ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, as (b) %, =, , == (e) *, ==, <>, ! s incorporate an external JavaScrip ext_JSfile.js" type="text/javas</td><td>(c) \\ signment, comparison and logical operators (c) /, %=, !=, pt file named ext_JSfile.js into an HTML5</td></tr><tr><td>(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript? (a) +, ++, >, ! (d) ++, +=, !=, && Which of the following codes document? (a) <BODY><SCRIPT src="e" (b) <HEAD><SCRIPT src="e"</td><td>ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, as: (b) %, =, , == (e) *, ==, <>, ! s incorporate an external JavaScrip ext_JSfile.js" type="text/javasext_JSfile.js"></HEAD></td><td>(c) \\ signment, comparison and logical operators (c) /, %=, !=, pt file named ext_JSfile.js into an HTML5 cript"></BODY></td></tr><tr><td>(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript? (a) +, ++, >, ! (d) ++, +=, !=, && Which of the following codes document? (a) <BODY><SCRIPT src="e" (b) <HEAD><SLINK type="te"</td><td>ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, as (b) %, =, , == (e) *, ==, <>, ! s incorporate an external JavaScrip ext_JSfile.js" type="text/javasext_JSfile.js"></HEAD> ext/javascript" href="ext_JSfile.</td><td>(c) \\ signment, comparison and logical operators (c) /, %=, !=, pt file named ext_JSfile.js into an HTML5 cript"></BODY> e.js"></HEAD></td></tr><tr><td>(d) /* and */ is used for m (e) "new", "import" and " Which of the following is/are (a) \a (d) \i Which of the following is/are respectively in JavaScript? (a) +, ++, >, ! (d) ++, +=, !=, && Which of the following codes document? (a) <BODY><SCRIPT src="e" (b) <HEAD><SLINK type="te" (c) <HEAD><LINK type="te"</td><td>ultiple line commenting. default' are reserved words. (a) special character(s) in JavaSc (b) \t (e) \s (an) example(s) of arithmetic, as: (b) %, =, , == (e) *, ==, <>, ! s incorporate an external JavaScrip ext_JSfile.js" type="text/javasext_JSfile.js"></HEAD></td><td>(c) \\ signment, comparison and logical operators (c) /, %=, !=, pt file named ext_JSfile.js into an HTML5 cript"></BODY> e.js"></HEAD> e.js"></BODY></td></tr></tbody></table></script></body>		

Which of the following values may be assigned to the property background-repeat in CSS, in order to tile the entire web page with a background image?

(a) alert() (b) message() (c) dialog() (d) confirm() (e) prompt()

44) What would be displayed on the web browser when the following JavaScript code is executed?

- (a) The average mark is: 82.5
- (b) The average mark is: 270
- (c) The average mark is: 82
- (d) The average mark is: avg
- (e) JavaScript error.
- 45) Which of the following is/are (a) JavaScript event(s) used within HTML5 forms?
 - (a) onload()

(b) onunload()

(c) onblur()

- (d) onkeydown()
- (e) onfocus()
