



## UNIVERSITY OF COLOMBO, SRI LANKA



#### UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

## DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2018 – 1<sup>st</sup> Year Examination – Semester 1

# IT1305 – Web Application Development I Multiple Choice Question Paper

6<sup>th</sup> May, 2018 (TWO HOURS)

### Important Instructions:

- The duration of the paper is 2 (two) hours.
- The medium of instruction and questions is English.
- The paper has 45 questions on 11 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 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) HTTP	(b) SMTP	(c) TCP
(d) IPv4	(e) POP	
Which of the following stat	tements is/are <b>true</b> with respect	to the World Wide Web?
(a) The World Wide We	b (abbreviated WWW or the Web)	is an information space where document
other web resources a	are identified by Uniform Resource eferred to as the World Wide Web.	
(c) Hyperlinks embedded	d in web pages permit users to navi	gate between pages.
(d) The World Wide We	b uses a special set of protocols ra	ther than the protocols of the Internet pro
	for the Document Object Model" be no logies for the World Wide Web.	by W3C are a set of standards followed d
Which of the following is/a	are (a) private IP address(es)?	
(a) 10.100.1.1	(b) 192.168.1.100	(c) 192.248.1.1
(d) 112.135.31.1	(e) 66.200.140.1	
(c) Broadcast is when a h	ending data should address each and nost sends data to all hosts in a broad	•
	e done to a broadcast domain.	
(e) Geocast is when a hos	st broadcasts to hosts in a particular	r geographical boundary.
Which of the following is/a respectively?	are (a) top-level, country-code top	p-level and second-level domains
(a) .com; .lk; .edu	(b) .org; .au; .ac.lk	(c) .lk; .ac.uk; .cmb.ac.lk
(d) .mil; .in; .edu.lk	(e) .info; .be; .www.uc	sc.lk
Which of the following is/s	are (a) service(s) on the Internet?	
(a) World Wide Web	(b) Communication	(c) Data Transfer
(a) World Wide Web	(e) Malware	
(d) Telecommuting	(c) Warware	
(d) Telecommuting	are (a) social media website(s)?	
(d) Telecommuting		(c) Sourceforge

1	(b) Amazon	(c) Aliexpress
(d) Instagram	(e) Facebook	
Which of the following is.	are (a) block element(s) in HTML	5?
Γ		
(a)	(b) <hr/>	(c) <b></b>
(d)	(e) <img/>	
Which of the following is,	are (a) inline element(s) in HTMI	.5?
(a)	(b)	(c) <div></div>
(d) <script></td><td>(e) <h1></td><td></td></tr><tr><th>title>Exam Sample Docum style> able { border-collapse:s width: 50%;</th><th></th><th></th></tr><tr><th><pre>title>Exam Sample Docum style> able {         border-collapse:s         width: 50%;  d, th {         font-family: aria         border: 1px solid         text-align: left;</pre></th><th>eparate; l, sans-serif; grey;</th><th></th></tr><tr><td><pre>title>Exam Sample Docum style> able {         border-collapse:s         width: 50%;  d, th {         font-family: aria         border: 1px solid         text-align: left;         padding: 5px;</pre></td><td>eparate; l, sans-serif; grey;</td><td></td></tr><tr><td><pre>width: 50%;  d, th {     font-family: aria     border: 1px solid     text-align: left;     padding: 5px;  r:nth-child(even) {</pre></td><td>eparate; l, sans-serif; grey;</td><td></td></tr></tbody></table></script>		

11) How many rows would the above table have on the left-most side and the right-most side respectively?

(a) 4 and 5	(b) 3 and 4	(c) 4 and 4
(d) 5 and 6	(e) 5 and 4	

(a) border	(b) cellpadding	(c) cellspacing
(d) width	(e) None of the above	
Which of the following statements	s is/are <b>true</b> with respect to the H7	CML5 script?
(a) The  attribute colspan	= "3" is a must if the table header	is to span all three columns of the
(b) All text content within the	element will always be in	font Arial.
(c) The  content will be re	endered outside the table structure.	
(d) HTML5 does not require the based on the number of <to< td=""><td></td><td>vspan as it automatically identifies</td></to<>		vspan as it automatically identifies
(e) The <caption> content will</caption>	be rendered outside the table stru	cture.
Which of the following statements	s is/are <b>true</b> with respect to the HT	TML5 script?
(a) The table will be 50% of the	e browser window width.	
(b) Padding is the space betwee	en the cell border and the cell con	ent.
(a) If solid was not used for bo	order the table would be rendered v	vithout a border.
(b) The table border will be a s	single line in grey colour.	
(c) The 1 <sup>st</sup> row will be the tabl	e header.	
Which of the following is/are (an)	HTML5 element(s)?	
(a) <frame/>	(b) <frameset></frameset>	(c) <video></video>
(d) <noframes></noframes>	(e) <article></article>	
Which of the following tag pair(s)	is/are used to add comments in H	TML5 scripts?
(a)	(b) /	(c) //
(d) <comment></comment>	(e) /	
Which of the following character	encodings correspond to the three	characters ©, ® and TM respective
(a) &c, &r, &tm,	(b) copyr, reg, tradem,	(c) &c &r &tm
(d) &copyr, &regt, &tradem,	(e) © ® \$trade;	

12) Which of the following table contents will be in a grey cell?

(b) Subject

(e) General Science

(c) Average Mark

(a) Male

(d) Mathematics

- 19) Which of the following statements is/are **true** with respect to lists in HTML5?
  - (a) Unordered lists have a type attribute that specifies the shape of the bullet.
  - (b) When unordered lists have no style specified a black circle would be the default style.
  - (c) When ordered lists have no type specified roman numbers would be the default style.
  - (d) Ordered lists have a type attribute to specify the list item marker.
  - (e) Ordered lists have a style attribute to show the list item marker as alphabetical.
- 20) Which of the following is/are (an) attribute(s) that can be used to specify content of an iframe in HTML5?

(a) href	(b) src	(c) link	
(d) @import	(e) import		

21) Which of the following is/are (a) possible value(s) for the target attribute in an anchor element?

(a) _blank	(b) _home	(c) _first
(d) _parent	(e) framename	

### Use the following HTML5 script to answer question numbers 22 – 24.

Assume that the script is saved in a file named **sample.html**.

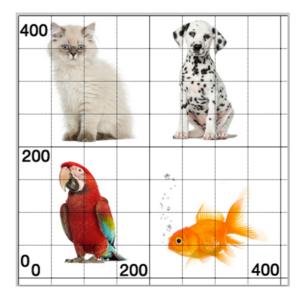
```
<!DOCTYPE html>
<html>
<body>
<form action="../serverpages/save.php">
 <fieldset name="Group">
    <legend>Personal information:</legend>
    First name: <br>
    <input type="text" name="firstname" value="First name">
    Last name: <br>
    <input type="text" name="lastname" value="Last name">
    <br><br><br>>
       Occupation:
       <br>
      <select name="occupation" size="2">
        <option value="Academic">Academic</option>
        <option value="Entrepreneur">Entrepreneur</option>
        <option value="Doctor">Doctor</option>
        <option value="Engineer">Engineer</option>
        <option value="Farmer">Farmer</option>
        <option value="Software Engineer">Software Engineer</option>
        <option value="Teacher">Teacher</option>
        <option value="Other">Other</option>
      </select>
 </fieldset>
<input type="submit" value="Save">
</form>
</body>
</html>
```

(b) The label display		vill open in a new window.
	ed on the button is <b>submit</b> .	
(c) The file save.php	is located in the sereverpages director	ory located at the same folder as sample.html
(d) The text field wil	l not contain any value.	
(e) The form will sti	ll work even though the method attrib	oute is not specified.
Which of the following	statements is/are <b>true</b> with respect to	the HTML5 script?
(a) The fieldset grou	ps similar types of form-fields.	
(b) The submit butto	n lies outside the fieldset grouping.	
(c) The fieldset creat	tes a border around the form-fields.	
(d) The text "Group"	is displayed at the top-left-hand corn	ner of the fieldset grouping.
(e) CSS cannot chan	ge the appearance of fields within a fi	ieldset.
Which of the following	statements is/are <b>true</b> with respect to	the HTML5 script?
(a) The maximum nu	umber of options allowed to be selected	ed for occupation is two.
(b) The default number	per of options allowed to be selected i	s one.
(c) Multiple options	selection is enabled through the multi	iple attribute in the select element.
(d) Required attribut	e specifies that at least one option nee	eds to be selected.
(e) The Text within t	the <option></option> tags have to be	e the same as the value attribute of the option
Which of the following	methods in a HTML5 form would app	pend form-data to the URL?
(a) GET	(b) POST	(c) URL
	(e) VISIBLE	
(d) APPEND	(c) VISIBLE	
	elements is/are used to include a quot  (b) <quote></quote>	e in HTML5?  (c) <blockquote></blockquote>

22) Which of the following statements is/are **true** with respect to the above HTML5 script?

(a) <em> <b> <del> <sub></sub></del></b></em>	> <mark> <sup> <ins></ins></sup></mark>	
(b) <i><b><strike> <sub></sub></strike></b></i>	> <bg> <sup> <u></u></sup></bg>	
(c) $\langle i \rangle \langle strong \rangle \langle del \rangle \langle strong \rangle$	ub> <mark> <sup> <ins></ins></sup></mark>	
(d) <strike></strike>	> <highlight> <sup> <u></u></sup></highlight>	
(e) <i> <b> <del> <sub> &lt;</sub></del></b></i>	<pre><highlight> <sup> <u></u></sup></highlight></pre>	
hich of the following is/are	(an) HTML5 logical style element(s	s) for formatting text?
(a) <small></small>	(b) <strong></strong>	(c) <b></b>
(d) <em></em>	(e) <code></code>	
TML5?		
TML5?		
	(h) height = "5nx"	(c) weight = "5nx"
(a) width: 5px in <style> (d) width = "5px"</th><th>(b) height = "5px"  (e) border-width: 5px in < pees is/are best suited for displaying</th><th></th></tr><tr><td>(a) width: 5px in <style> (d) width = "5px"  /hich of the following file ty TML5?  (a) GIF</td><td>(e) border-width: 5px in < per pes is/are best suited for displaying  (b) JPEG</td><td>style></td></tr><tr><td><ul><li>(a) width: 5px in <style></li><li>(d) width = "5px"</li><li>/hich of the following file ty TML5?</li></ul></td><td>(e) border-width: 5px in < per pes is/are best suited for displaying</td><td>style> an animated image in an <img> el</td></tr><tr><td>(a) width: 5px in <style> (d) width = "5px"  /hich of the following file ty TML5?  (a) GIF (d) MOV</td><td>(e) border-width: 5px in < per pes is/are best suited for displaying  (b) JPEG</td><td>an animated image in an <img> el-</td></tr><tr><td>(a) width: 5px in <style> (d) width = "5px"  /hich of the following file ty TML5?  (a) GIF (d) MOV</td><td>(e) border-width: 5px in < pes is/are best suited for displaying  (b) JPEG  (e) MP4</td><td>an animated image in an <img> el-</td></tr></tbody></table></style>		

Questions 32-34 are based on the following image. Assume that the image is stored in a file with the name "pets.jpg". The grid and the values shown above the image is a guide and the values are in pixel.



- Which of the following HTML5 code segment(s) would add the above image to a webpage named example.htm located in the same folder as the image?
  - (a) <img href= "pets.jpg">
  - (b) < img src= "./pets.jpg" width= "200" height= "200">
  - (c) <img src= "../pets.jpg">
  - (d) <img href= "./pets.jpg" alt = "Select Pets">
  - (e) <img src= "pets.jpg">
- Which of the following HTML5 code segment(s) would link a defined map "petmap" over the image that creates active hyperlink areas on the image?
  - (a) <img href= "pets.jpg" usemap= "petmap">
  - (b) <img src= "./pets.jpg" mapname= "petmap">
  - (c) <img src= "pets.jpg" map= "petmap">
  - (d) <img href= "./pets.jpg" mapname= "petmap">
  - (e) <img src= "pets.jpg" usemap= "petmap">
- Which of the following HTML5 code segment(s) would create a map area on the image area with the cat that when clicked would link to the page with the name **cat.htm**, located in the same folder as the example.htm page?
  - (a) <map name= "petmap"><area shape = "rect" coords= "50,250,150,350" href= "cat.htm"></map>
  - (b) <map name= "petmap"><area shape = "square" coords= "50,0,150,100" href= "cat.htm"></map>
  - (c) <map name= "petmap"><area shape = "rectangle" coords= "50,0,150,150" href= "cat.htm"></map>
  - (d) < map name= "petmap" > < area shape = "circle" coords= "100,100,50" href= "cat.htm" > < / map > < map >
  - (e) <map name= "petmap"><area shape = "circle" coords= "100,300,50" href= "cat.htm"></map>

	35)	ing is/are (a) value(s) accepted in CSS for representing the colour green?
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```
(a) #00FF00 (b) Green (c) #Green
(d) RGBA(0,255,0,0.0) (e) RGB(0,255,0)
```

Which of the following code(s) link an external stylesheet with file name bit\_style.css to an HTML5 webpage located in the same folder?

```
(a) (a) (b) (ink rel="stylesheet" type="text/css" href="bit_style.css">
(b) (ink rel="stylesheet" href="bit_style.css">
(c) <import url="mystyle.css">
(d) @import url("navigation.css");
(e) @import "navigation.css";
```

37) Which of the following CSS code follows proper CSS syntax?

```
(a) p { color = #0000FF, font-size = "12px" }
(b) h1, h2, p { color:#FF0000; text-align:left; }
(c) h1 { font-size:12px; text-align:center; }
(d) A lot of text here
(e) #para { text-align: right;}
```

38) Which of the following CSS code(s) defines a class?

```
(a) *text { font-family: Arial, sans-serif;}
(b) class:text { font-family: Arial, sans-serif;}
(c) .text { font-family: Arial, sans-serif;}
(d) p.text { font-family: Arial, sans-serif;}
(e) #text { font-family: Arial, sans-serif;}
```

39) Consider the image given below.

Which of the following CSS codes would create this background gradient in a HTML5 page?

```
(a) #fill { background: linear-gradient(to bottom right, rgba(0,0,0,1), rgba(0,0,0,0));}
(b) #fill { background: linear-gradient(to right, rgb(0,0,0), rgb(255,255,255));}
(c) #fill { background: linear-gradient(top left to bottom right,#000000,#FFFFFF);}
(d) #fill { background: linear-gradient(#000000,#FFFFFF);}
(e) #fill { background: linear-gradient(to bottom right,#000000,#FFFFFF);}
```

40)	Which of the	following	is/are (a	) valid	variable	in JavaScrip	t?
TU /	. Willelf Of the	, ionowing	, 13/ arc (a	, vanu	variable	III Javaberip	

(a) var	(b) \$var	(c) Var
(d) _var	(e) 1var	

41) Which of the following is/are (a) logical operator(s) in JavaScript?

```
(a) && (b) & (c) ||
(d) === (e) !==
```

42) Which of the following code(s) would define an array in JavaScript?

```
(a) var weekdays = ("Mon", "Tue", "Wed", "Thu", "Fri");
(b) var weekdays = Array("Mon", "Tue", "Wed", "Thu", "Fri");
(c) var Address = {Number: "35", Street: "Reid Avenue", City: "Colombo", PostCode: 7};
(d) var weekdays = ["Mon", "Tue", "Wed", "Thu", "Fri"];
(e) var weekdays = new Array("Mon", "Tue", "Wed", "Thu", "Fri");
```

43) Which of the following JavaScript commands generate popup boxes with a "Close" button?

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

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

```
<HTML>
<HEAD>
</HEAD>
<BODY>
       <P id="test">
               <SCRIPT>
                       var x = 20;
                       var y = 10;
                       var z = x++;
                       x \%= y;
                       document.getElementById("test").innerHTML = "x = " + x + ", y = " + y + "
                       and z = " + z;
               </SCRIPT>
       </P>
</BODY>
</HTML>
```

```
(a) x = 1, y = 11 and z = 20

(b) x = 2, y = 11 and z = 21

(c) x = 2, y = 10 and z = 20

(d) x = 1, y = 10 and z = 21

(e) JavaScript error.
```

45) In which of the following locations can a JavaScript code be included to be used in a HTM	IML5 document?
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- (a) Inside the Head of the document.
- (b) Inside the Body of the document.
- (c) On an external html file imported in the head of the document.
- (d) On an external html file linked in the head of the document.
- (e) On an external .js file referenced in a <script> element.

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