# UTHM
Universiti Tun Hussein Onn Malaysia

# UNIVERSITI TUN HUSSEIN ONN MALAYSIA

# FINAL EXAMINATION
## SEMESTER I
## SESSION 2017/2018

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|---|---|---|
| COURSE NAME | : | WEB ARCHITECTURE |
| COURSE CODE | : | BIW 20303 |
| PROGRAMME CODE | : | BIW |
| EXAMINATION DATE | : | DECEMBER 2017 / JANUARY 2018 |
| DURATION | : | 3 HOURS |
| INSTRUCTION | : | ANSWER **ALL** QUESTIONS |

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THIS QUESTION PAPER CONSISTS OF **SEVEN (7)** PAGES

**SECTION A**
**Instruction : Choose the CORRECT answer.**

Q1     A web designer will use hexadecimal notation to _____ when building a website.
       (A)    determine the width of a `div`
       (B)    help a table be more readable
       (C)    assign colors in with Cascading Style Sheet (CSS)
       (D)    declare the document type

                                                                                    (1 mark)

Q2     Which HTML tag is used to describe a website?
       (A)    `<!doctype>`
       (B)    `<meta>`
       (C)    `<body>`
       (D)    `<head>`

                                                                                    (1 mark)

Q3     What is the recommended way to create a hyperlinked text?
       (A)    Create the entire sentence as a hyperlink.
       (B)    Include the words "click here" in your text.
       (C)    Use a key phrase as a hyperlink.
       (D)    None of the above.

                                                                                    (1 mark)

Q4     Which of the following statement is **TRUE** about W3C Markup Validation Service?
       (A)    It describes how to fix the errors in your web page.
       (B)    It lists syntax errors in web page.
       (C)    It is only available to W3C members.
       (D)    None of the above statements are true.

                                                                                    (1 mark)

Q5     A consistent website design should have all the following properties **EXCEPT**
       (A)    A similar navigation area on each content page.
       (B)    The same fonts on each content page.
       (C)    A different background color on each page.
       (D)    The same logo in the same location on each content page.

                                                                                    (1 mark)

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**Q6**    What is the default alignment for headings and paragraphs?
  (A)    Center
  (B)    Left
  (C)    Right
  (D)    Wherever you type them in the source code

(1 mark)

**Q7**    The Bootstrap grid system is based on _____ columns.
  (A)    9
  (B)    3
  (C)    6
  (D)    12

(1 mark)

**Q8**    Which of the following is using the correct CSS syntax?
  (A)    `{body;color:black;}`
  (B)    `body {color: black;}`
  (C)    `body:color=black;`
  (D)    `{body:color=black;}`

(1 mark)

**Q9**    Apart from `<b>` tag, what other tag makes text bold?
  (A)    `<fat>`
  (B)    `<strong>`
  (C)    `<black>`
  (D)    `<emp>`

(1 mark)

**Q10**   Which of the following is the design technique used to create pages that aligned to be left in the browser window?
  (A)    Ice
  (B)    Liquid
  (C)    Jello
  (D)    None of the above

(1 mark)

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**SECTION B**
**Instruction : Answer ALL questions.**

**Q11**    (a)    Discuss **FOUR (4)** elements in web design.

(8 marks)

(b)    Consider the web page in **Figure Q11**, explain whether this web page complied to the web design recommendation by W3C.
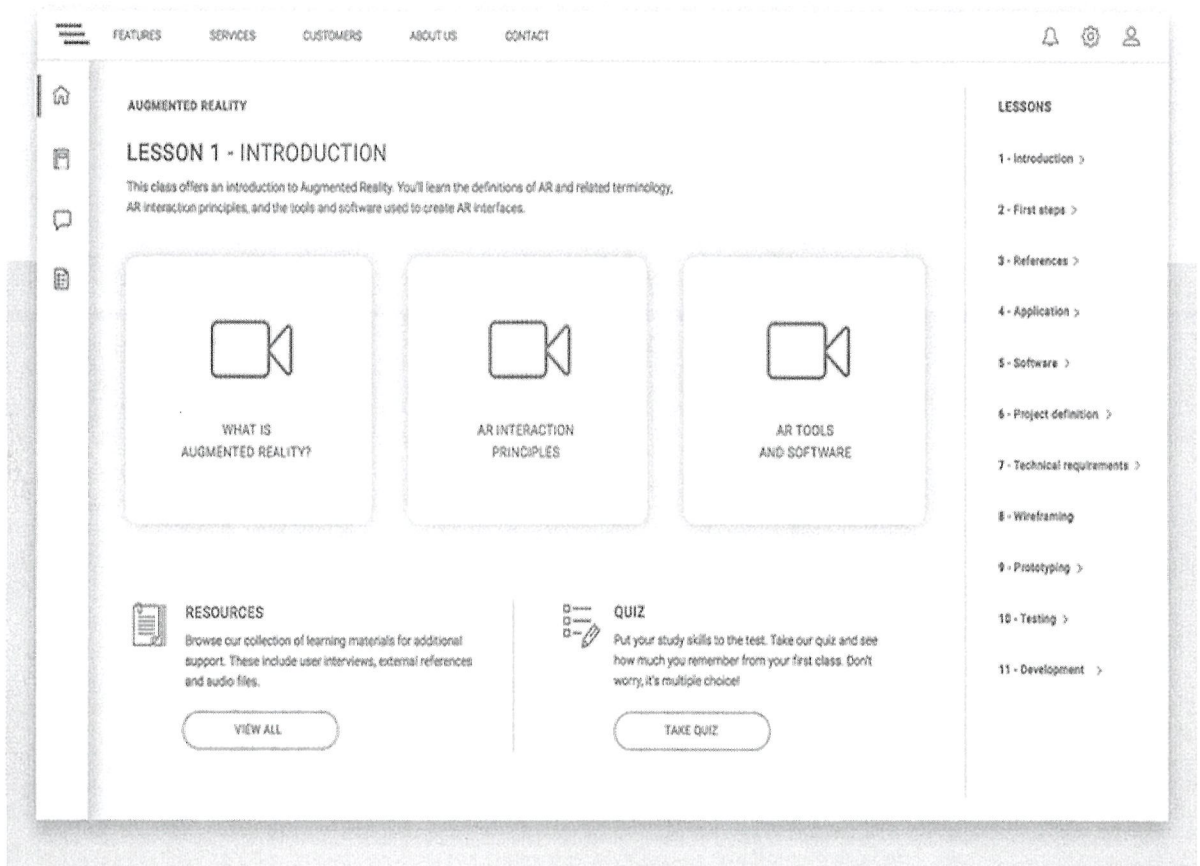


**Figure Q11**

(8 marks)

**Q12**    (a)    Explain Responsive Design in a web page.

(2 marks)

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(b)  Analyze **FOUR (4)** bad web design criteria based on **Figure Q12**.
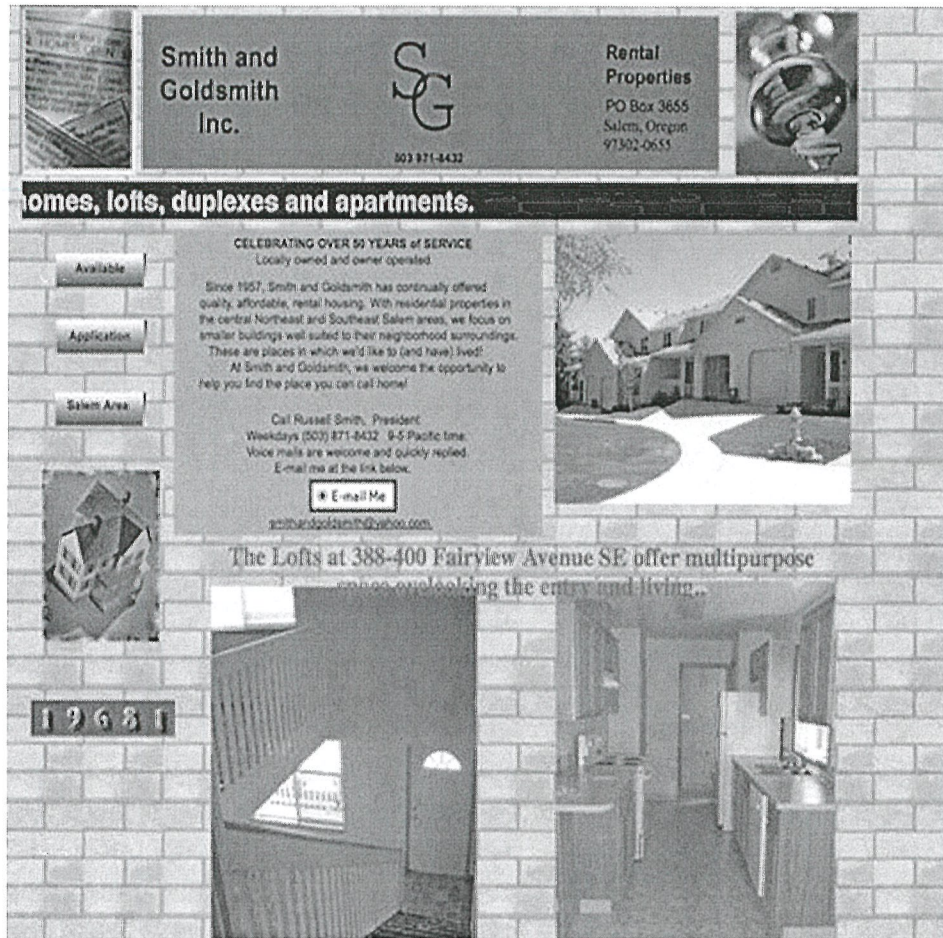


**Figure Q12**

(8 marks)

**Q13** Conducting evaluation is integral to the design process.

(a)  Differentiate **THREE(3)** types of evaluation in web design.

(6 marks)

(b)  For each of the following situations, select the best evaluation technique and state your reason:

    (i)  You want to investigate why it takes so long to do an apparently straightforward task.

(2 marks)

      (ii)     Your most important need is to measure the time taken to do the task, but at the same time, you need to know the user's thought processes as the user performs the task.

(2 marks)

      (iii)    You want to investigate students' satisfaction aspects when using Sistem Maklumat Pelajar.

(2 marks)

(c)     Outline **THREE (3)** usability aspects that should be considered when evaluating a website for selling clothes.

(6 marks)

**Q14**    Producing a wireframe is a crucial phase in designing a webpage.

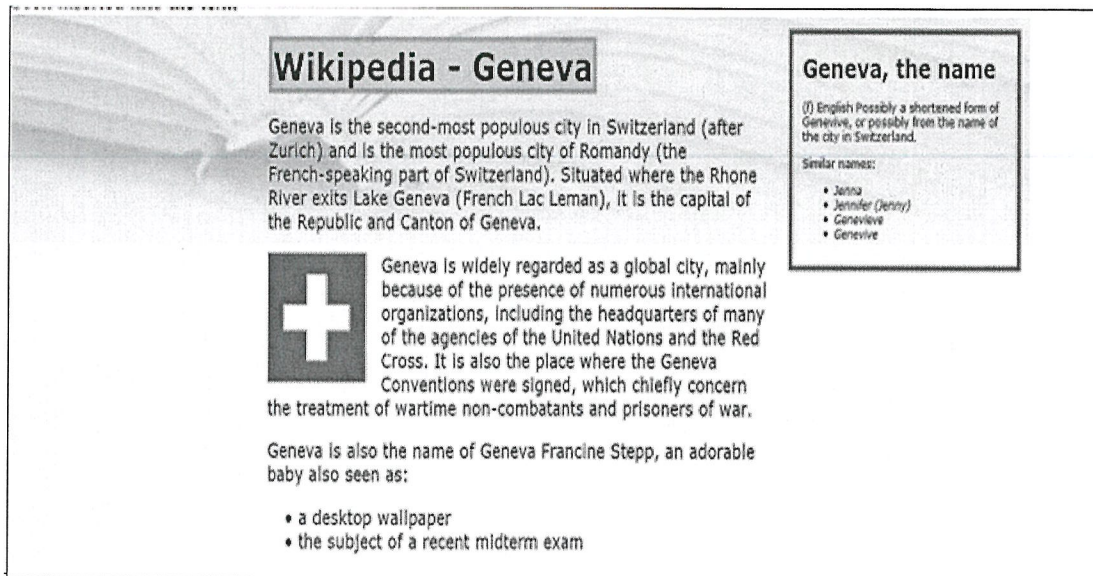(a)     Give a definition of wireframe.

(2 marks)

(b)     Design **TWO (2)** types of wireframe that conform to the web design recommended practice.

(6 marks)

(c)     Give **TWO (2)** suggestions that a web designer needs to consider when writing an error message.

(4 marks)

(d)     As a web designer, what would be your color choice for "DELETE" button? Give **ONE (1)** justification.

(2 marks)

**Q15**   Based on **Figure Q15**, write full HTML and CSS codes to generate a web page as in the given format.



**Figure Q15**

Format:

- The overall page's text uses a 14pt Verdana font. The page has an overall background of bg.jpg, located in the same folder as the page; the background should appear only once and should not repeat.
- The text in the page's main h1 heading has a yellow background and a solid 5px-thick orange border.
- The main section of page content is half as wide as the browser window and centered horizontally in the window. The text uses the default left-alignment.
- The image of the Swiss flag, switzerland.png, has 1em of horizontal space between itself and nearby text. Text wraps around the image as necessary.
- The area on the right about "Geneva, the name" appears 1em from the page's top/right corner. Its width should be 1/5 of the width of the overall browser window. It has a solid 5px-thick red border. Text in that part of the page uses a 9pt font. 1em separates the section's border from the content inside the section. The items in the bulleted list in this section are in italic.

(20 marks)

**-END OF QUESTION -**