TUNKU ABDUL RAHMAN UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

ACADEMIC YEAR 2023/2024

JANUARY EXAMINATION

AACS1483 WEB DESIGN AND DEVELOPMENT

WEDNESDAY, 10 JANUARY 2024   TIME: 9.00 AM – 11.00 AM (2 HOURS)

DIPLOMA IN COMPUTER SCIENCE

DIPLOMA IN INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION SYSTEMS

DIPLOMA IN SOFTWARE ENGINEERING

Instructions to Candidates:

Answer **ALL** questions. All questions carry equal marks.

This question paper consists of 4 questions on 5 printed pages.

Question 1

a) Write appropriate HTML code to perform the following tasks:

   (i) Mark the following output **as a paragraph** with the appropriate text-level elements.

   | **Konoha**Fire is the *Village Hidden by Tree Leaf* |
   (4 marks)

   (ii) Link the text "Konoha Village" to the website "*www.konohavill.com.my*".   (2 marks)

   (iii) Mark the text "Welcome to Konoha" as heading 3 with id named "title".   (2 marks)

   (iv) Display the text "Naruto&Sasuke" in a paragraph.
   [*Hint: the character code for & is 38.*]   (2 marks)

b) Write the HTML code for the basic structure of an HTML5 document.   (4 marks)

c) Use appropriate HTML code to display the output with nested list as shown in Figure 1.

- Leaf Village
    1. Naruto
    2. Sasuke
- Sand Village
    1. Gaara
- Stone Village
- Mist Village
- Clouds Village

Figure 1

(11 marks)

[Total: 25 marks]

Question 2

a) With reference to Figure 2, complete the following table (Table 1) with the absolute path and relative path for the specified web pages. Assume that the current file is **intro.html**.

Table 1

Web Page	Absolute Path	Relative Path
intro.html		
fileA.html		
fileB.html		
Xfile.html		
coding.html		

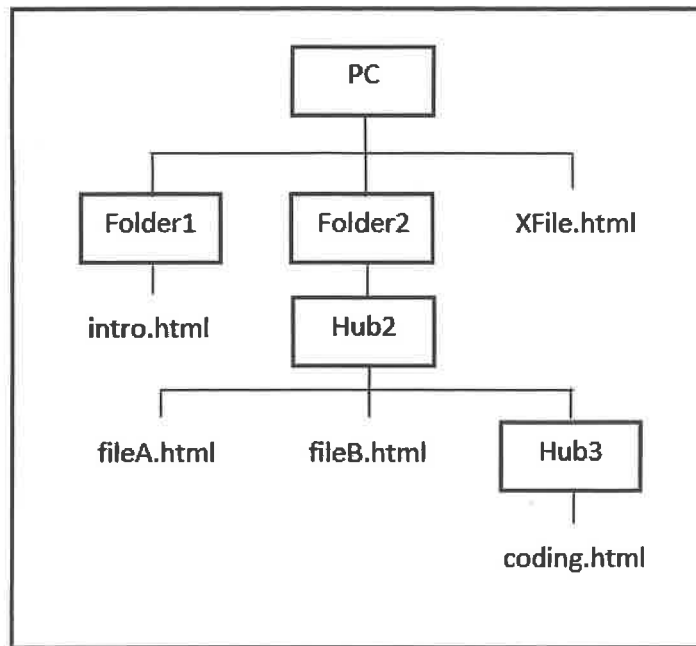This question paper consists of 4 questions on 5 printed pages.

Question 2 a) (Continued)

Figure 2

(10 marks)

b) With reference to Figure 3, create an image map with the appropriate HTML code according to the following specifications:

- o Make the image named "computer.jpg" as the image map.
- o Set the name and id of the image map to "PC".
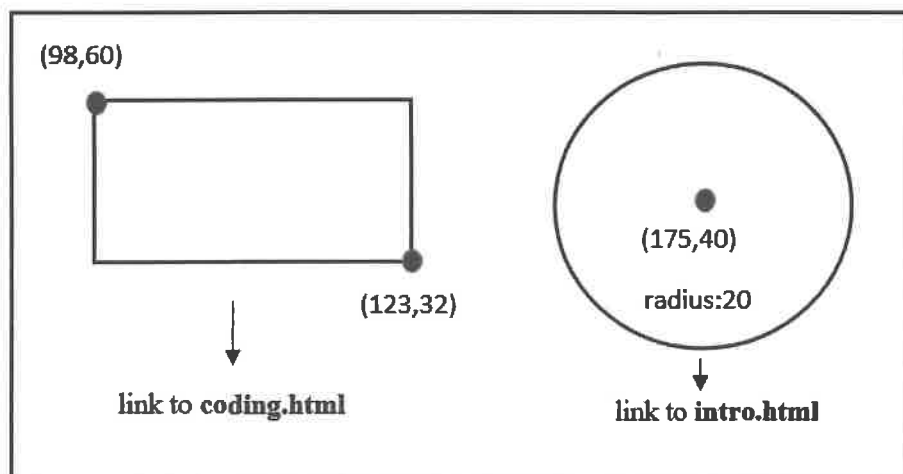- o Create the **TWO (2)** hotspots and link them to the respective web pages.

Figure 3

(9 marks)

Question 2 (Continued)

c) Cascading Style Sheets (CSS) is used for describing the presentation of a document written in HTML.

    (i)   By using *inline style sheet*, set the font color of **TARUMT (h1 heading)** to **blue** and the text alignment to **center**.

                        (3 marks)

    (ii)   By using *embedded style sheet*, set all the h1 heading's background color to **white**.

                        (3 marks)

[Total: 25 marks]

Question 3

a) Write appropriate style declarations using *external CSS file* with the following specifications:

- Display page body text with rgb(50,60,60), background color of blue, and body text font of Times New Roman, Times, serif.
- Set h1 heading text in the font size of 16pt and transform to uppercase.
- Set h2 heading text to bold and italic.
- Set footer element to display text with line height of 200%, horizontally left with word spacing of 20px and 10px padding top.

                        (15 marks)

b) Write the appropriate HTML code to create the web table as shown in Figure 4. State that the "DCIT Core Subjects" is the table header cell.

DCIT Core Subjects		
Diploma	DSF	Web Design and Development
	DFT	Data Science

Figure 4

[*Note: Assume the table border and table cell have been defined using embedded style sheets.*]

                        (10 marks)

[Total: 25 marks]

Question 4

a) Write HTML code to create the form as shown in Figure 5 based on the specifications given.

- Set a form header "Student Registration Form" as heading 1.
- Set the name and id of the form as "register".
- Set "Name" textbox with a name and id named "name".

Question 4 a) (Continued)

- "Gender" consists of 2 radio buttons. Give them a group name called "gender" with a unique id for each.
- "Date of Birth" is a date input element. Set its id and name to "date".
- "Branch" is a selection list which consists 5 options: Sabah branch, Penang Branch, Perak Branch, Johor Branch, and Pahang Branch. Set its id and name to "branch".
- "Email" is an email input element. Set its id and name to "email".
- "Submit" is a submit button.
- "Cancel" is a reset button.

Figure 5

[Note: You are not required to use label element in your answer. Plain Text is sufficient.]

(18 marks)

b) Write appropriate JavaScript statements to accomplish the following tasks:

(i) Get the input value from a textbox with id named "answer" and write this value into a variable named "solution". (2 marks)

(ii) Create a prompt dialog box with the message "Please enter your name" and with a default text "Full name" after clicking the "Click me" button.
[Note: You can use any suitable function name and variable name under your script.]
(5 marks)

[Total: 25 marks]