UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2022/2023

COURSE NAME	:	WEB DEVELOPMENT
COURSE CODE	:	BIC 21203
PROGRAMME CODE	:	BIS / BIP / BIW / BIM
EXAMINATION DATE	:	FEBRUARY 2023
DURATION	:	3 HOURS
INSTRUCTION	:	1. ANSWER **ALL** QUESTIONS.

2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**.

3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

Q1   (a)   Describe the procedure for sending client requests to the server.

(2.5 marks)

(b)   Write a JavaScript programming code to display "I love myself."

(5 Marks)

(c)   Write **TWO (2)** examples to declare multiple variables in JavaScript.

(5 Marks)

Q2   Answer **Q2 (a) – Q2 (e)** based on **Figure Q2**.

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4 <?php
5 $favcar = "Honda";
6 switch ($favcar) {
7  case "Audi":
8      echo "Your favorite car is Audi!";
9      break;
10 case "Honda":
11     echo " Your favorite car is Honda!";
12     break;
13 case "Toyota":
14     echo " Your favorite car is Toyota!";
15    break;
16    default:
17    echo "Your favorite car is neither Audi, Honda,
       nor 18 Toyota!";
19 }
20 ?>
21 </body>
22 </html>
```

Figure Q2

(a)   Write the output for **Figure Q2**.

(4 Marks)

(b)   Give an alternative control statement that can replace the control statement used in **Figure Q2**.

(3.5 Marks)

(c)   Add multi-line comments between lines 4 to 8 in **Figure Q2**.

(4 Marks)

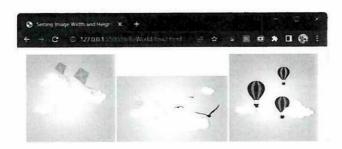(d)   Write the output if all break statements are removed from the programming code in **Figure Q2**.

(6 Marks)

(e)   Describe the important of break statement in **Figure Q2**.

(5 Marks)

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Q3   Write HTML page to produce the same presentation as shown in **Figure Q3**. The page should contain the following items:
- It should include three images of a kite, sky, and balloon.
- Write the paragraph *'walk in the park to relieve the stress of the day'* below the images.
- Place the family image after the paragraph.
- All images and paragraph should be cantered.

Figure Q3

(15 marks)

Q4   (a)   State the steps to connect HTML to a database with MySQL using PHP.

(4 marks)

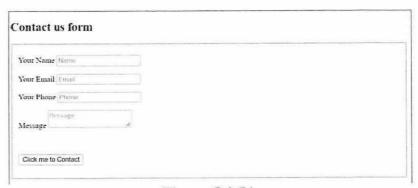(b)   Write HTML form for contact page as shown in **Figure Q4(b)**.

Figure Q4 (b)

(15 marks)

(c)   Write database connection

(5 marks)

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(d)   Write the code to capture data from form.

(4 marks)

(e)   Write SQL command to insert the data from form to database

(7 marks)

Q5   (a)   Answer **Q5(a)(i)** and **Q5(a)(ii)** based on **Figure Q5(a)**.

```
Andy really likes to play computer games, but he has some problems
playing the games installed on his laptop.
```
Figure Q5(a)

(i)   Discuss **TWO (2)** possible reasons why these issues happened.

(4 marks)

(ii)   Suggest **ONE (1)** solution with justification to overcome the issue at no cost.

(3 marks)

(b)   Explain **THREE (3)** ways to reduce page load time based on **Figure Q5(b)**.

```
Following is some of the key findings regarding website load in 2022.

• The ideal website load time for mobile sites is 1-2 seconds.
• 53% of mobile site visits are abandoned if pages take longer
  than 3 seconds to load.
• A 2-second delay in load time resulted in abandonment rates of
  up to 87%.
• Google aims for under half-a-second load time.
• A very slow load time can be a negative Google ranking factor.
```
Figure Q5(b)

(6 marks)

(c)   State the web security issues based on the information in **Figure Q5(c)**.

```
You visited a website that requires user registration. While
filling up the registration form, it disallows numbers or special
characters in the name field, makes the user select their state and
city while entering the address, and only allows a legitimate
format for email addresses.
```
Figure Q5(c)

(2 marks)

- END OF QUESTIONS -

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