

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

## **FINAL EXAMINATION** SEMESTER II **SESSION 2021/2022**

**COURSE NAME** 

WEB DEVELOPMENT .

COURSE CODE

: BIC 21203

PROGRAMME CODE : BIW / BIM

EXAMINATION DATE :

JULY 2022

**DURATION** 

: 3 HOURS

INSTRUCTION

1. ANSWER ALL QUESTIONS

2. THIS FINAL EXAMINATION IS AN **ONLINE** ASSESSMENT AND CONDUCTED VIA CLOSED BOOK.

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

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

CONFIDENTIAL



Q1 (a) Identify the results of the following program in Figure Q1(a).

(5 marks)

Figure Q1(a)

(b) Examine the program code provided in **Figure Q1(b)**. Write a program trace that explains what each line of the program does. Identify the result that is returned by the program.

(15 marks)

```
<?php
2
    function daysofweek($number) {
3
    $weeknames=array("Monday", "Tuesday", "Wednesday", "Thursday",
4
    "Friday", "Saturday", "Sunday");
5
    return($weeknames[$number]);
6
    };
7
    ?>
8
    <html>
9
    <head>
10
    <title>Days of week</title>
11
    </head>
12
    <body>
13
    <h1>Days of week</h1>
14
    <?php $dayno=4; ?>
15
    Today is <?php print daysofweek($dayno); ?>
16
    17
    </body>
18
    </html>
```

Figure Q1(b)

Q2 Answer Q2(a)-Q2(i) in PHP code to generate a bar chart of new Covid-19 cases based on data in Table Q2 using GD Library. You may refer the output as shown in Figure Q2.

Table Q2. Number of new Covid-19 cases

Date	11/Oct	12/Oct	13/Oct	14/Oct	15/Oct	16/Oct	17/Oct
New Cases	6709	7276	7950	8084	7420	7509	6145

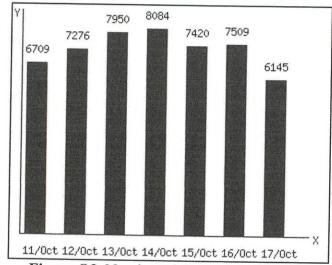


Figure Q2. Number of new Covid-19 cases

(a) Set the output of the image to *jpeg* format.

(1 mark)

(b) Write **TWO** (2) arrays to initialize the data for Date and the Number of New Cases.

(2 marks)

(c) Use *imagecreate* function to setup the image canvas with 255 (height) and 320 (width) in size.

(1 mark)

(d) Use *imagecolorallocate* function to set the canvas background color to white.

(1 mark)

TERBUKA

Q3

MTID.	EINTIAL BIC 21203					
(e)	Draw black lines for the X and Y axis of the bar charfollowing start and end coordinates:  X: (10, 230), (300, 230)  Y: (10, 5), (10, 230)	rt using the				
	(, -), (,)	(2 marks)				
(f)	Initialize the fill color for all graph bar to blue.	(1 mark)				
(g)	Initialize the first graph bar location to (15, 230), the bar wid max bar height to 10000.					
		(4 marks)				
(h)	Use for loop to populate each bar.	(4 marks)				
(i)	Put label for X axis as the Date, and for Y axis is the num Cases (stacked on top of each bar, respectively).	ber of New (4 marks)				
Answer	Q3(a)-Q3(d) in PHP code, considering the following steps.					
(a)	A block of codes to make a connection to a MySQL databab_MY using PHP Data Objects (PDO).	base named				
		(2 marks)				
(b)	A block of codes in a form to key in a Malaysian IC Number.	(3 marks)				
(c)	A block of codes to extract <b>THREE</b> (3) information from the entered Malaysian IC Number in <b>Q3(b)</b> ; date of birth, gender and place of birth Categorize the place of birth into two; Malaysia or Overseas.					
		(10 marks)				

(d) A block of codes which includes an SQL statement to save the Malaysian IC Number, Birth Date, Gender, Birth Place in a table named MyData in db\_MY.

4

(5 marks)

CONFIDENTIAL



Q4 (a) List TWO (2) threats affecting web security. (2 marks)

- (b) Explain **THREE** (3) ways to ensure the logo or any branding images are protected. (3 marks)
- (c) List **FIVE** (5) methods to avoid any intrusions to a company's website. (5 marks)
- (d) Explain what SQL injection is. By giving an example, explain how to prevent SQL injection.

(10 marks)

- END OF QUESTIONS -

