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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2021/2022**

COURSE NAME : WEB DEVELOPMENT
COURSE CODE : BIC 21203
PROGRAMME CODE : BIS / BIP/ BIW/ BIM
EXAMINATION DATE : JANUARY / FEBRUARY 2022
DURATION : 3 HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION
IS CONDUCTED ONLINE AND
CLOSE BOOK

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

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TERBUKA

Q1 Answer questions **Q1(a)-Q1(c)** by using your choice of Integrated Development Environment (IDE).

- a) Write a program by using Hypertext Preprocessor (PHP) and HyperText Markup Language (HTML). The program must display your full name in bold text, matric number in italic text and mykad number (or passport Number) line by line. Screenshot your output in the answer sheet.
(5 marks)
- (b) Write a PHP program to display **THREE (3)** types of your favourite diet together with gram (g) measurement for two days. The code design shall include Multidimensional Array format. You may refer the output as shown in **Figure Q1(b)**. Include your output in the answer sheet.

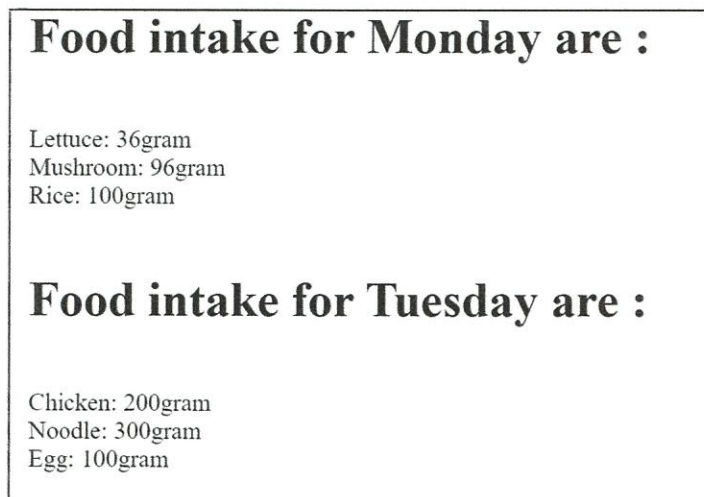


FIGURE Q1(b)

(7 marks)

- (c) Based on the answer in **Q1(b)**, write a PHP program to convert the gram (g) into ounce (oz) by using this formula: $oz = g * 0.035274$. You may refer the output as shown in **Figure Q1(c)**. Include your output in the answer sheet.

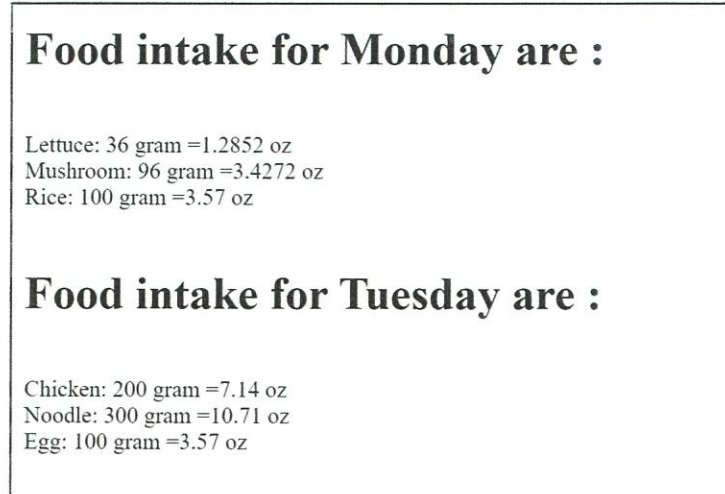


FIGURE Q1(c)

(8 marks)

Q2 Develop a PHP code to generate a bar chart of new Covid-19 cases based on data in **Table 1** using GD Library (refer to steps **Q2(a)-Q2(i)**). You may refer the output as shown in **Figure Q2**.

TABLE 1. 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

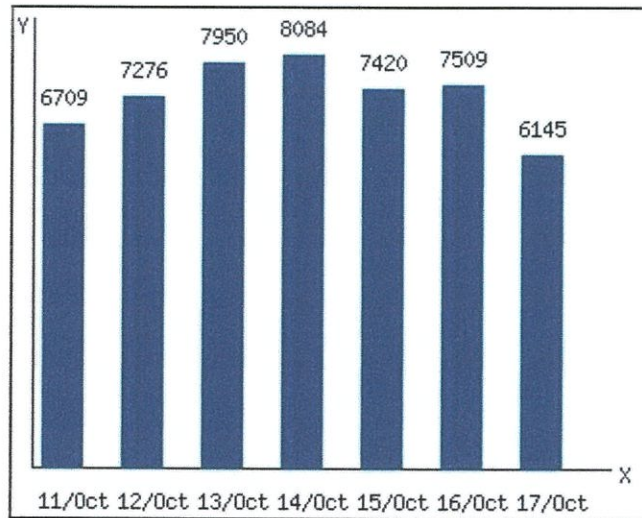


FIGURE Q2. Number of new Covid-19 cases

- (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)



- (e) Draw black lines for the X and Y axis of the bar chart using the following start and end coordinates:
X: (10, 230), (300, 230)
Y: (10, 5), (10, 230) (2 marks)
- (f) Initialize the fill color for all graph bar to blue. (1 marks)
- (g) Initialize the first graph bar location to (15, 230), the bar width to 20 and 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 number of `New Cases` (stacked on top of each bar, respectively) (4 marks)

Q3 Write a PHP program in a single webpage considering the following steps.

- (a) A block of codes to make a connection to a MySQL database named `db_MY` using PDO. (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 **THREE (3)** information from the entered Malaysian IC Number in **Q2(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`. (5 marks)

- Q4** (a) List **FIVE (5)** threats affecting web security. (5 marks)
- (b) Explain **FIVE (5)** ways to ensure the logo or any branding images are protected. (5 marks)
- (c) List **FIVE (5)** methods to avoid any intrusions to a company's website. (5 marks)
- (d) Based on **Figure Q4(d)** for issue of MySejahtera vaccination intrusion attempt, suggest **FIVE (5)** ways to avoid revoking information or data mislead changes for vaccination detail in the user mobile app.

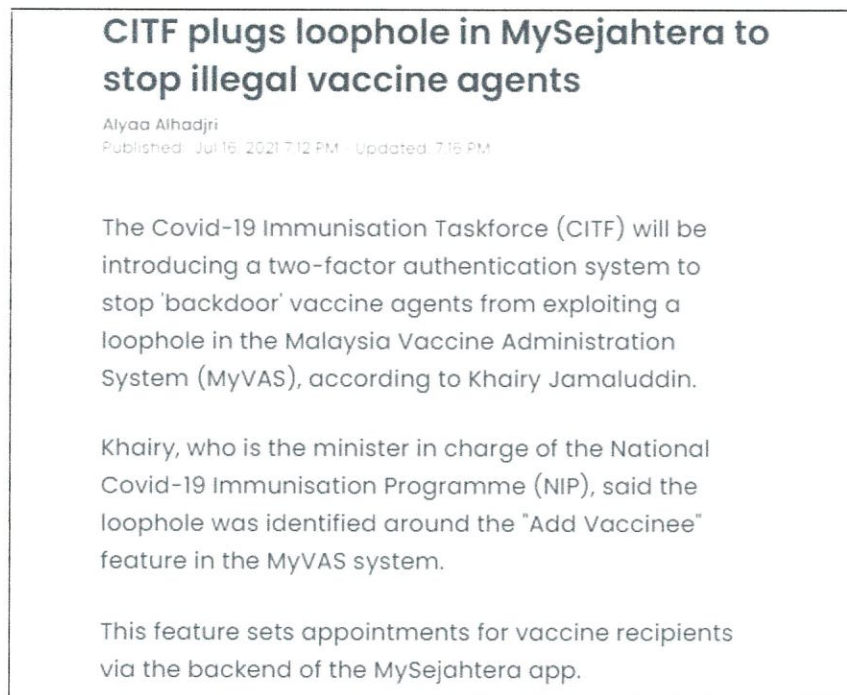


FIGURE Q4(d)

(5 marks)

- END OF QUESTIONS -