

SULIT



BAHAGIAN PEPERIKSAAN DAN PENILAIAN
JABATAN PENDIDIKAN POLITEKNIK
KEMENTERIAN PENDIDIKAN TINGGI

JABATAN TEKNOLOGI MAKLUMAT DAN KOMUNIKASI

PEPERIKSAAN AKHIR
SESI DISEMBER 2015

FP512: WEB PROGRAMMING 1

TARIKH : 06 APRIL 2016 (RABU)
MASA : 8.30 AM – 10.30 AM (2 JAM)

Kertas ini mengandungi **DUA PULUH (20)** halaman bercetak.

Bahagian A: Objektif (20 soalan)

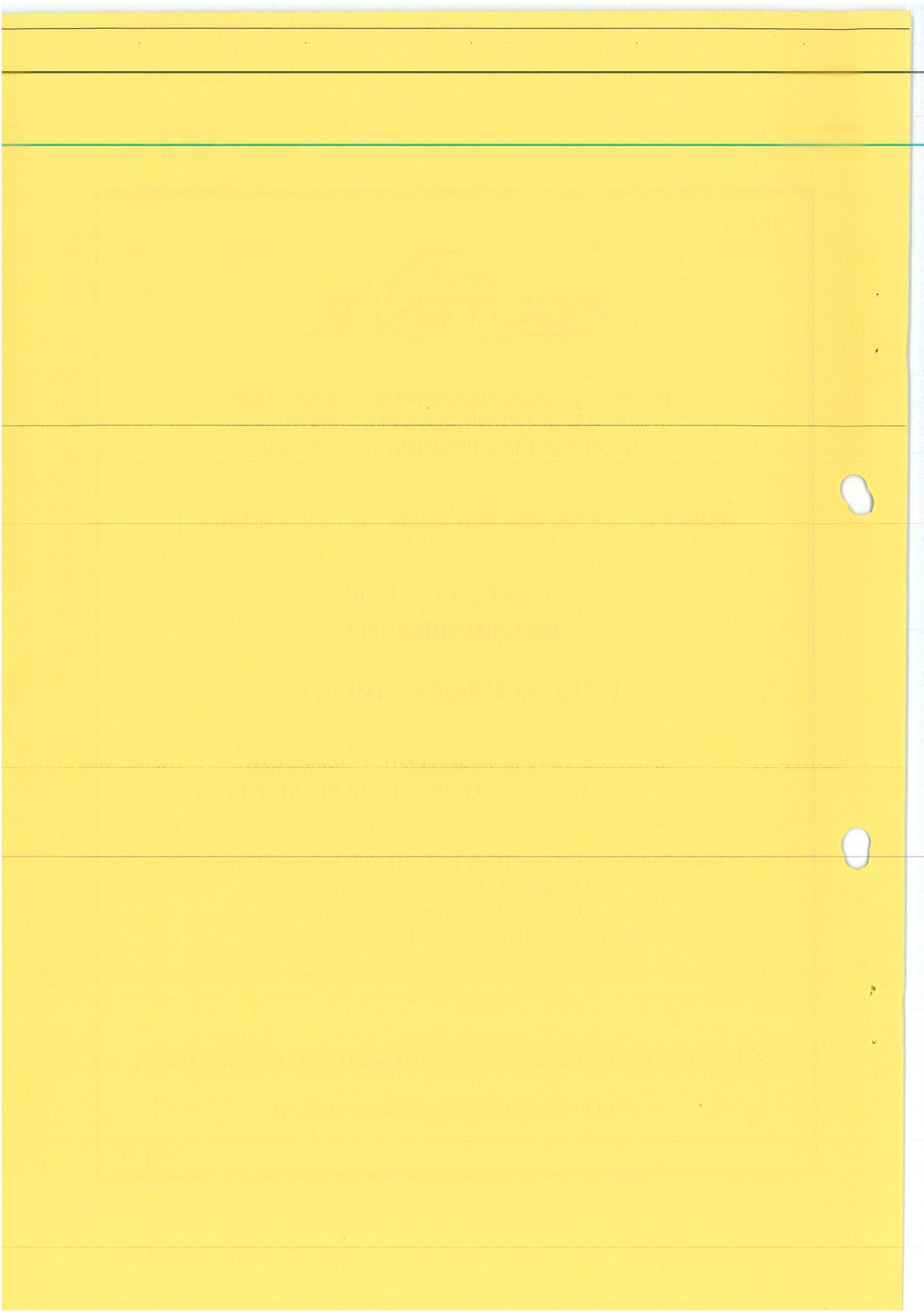
Bahagian B: Struktur (4 soalan)

Dokumen sokongan yang disertakan : Tiada

JANGAN BUKA KERTAS SOALANINI SEHINGGA DIARAHKAN

(CLO yang tertera hanya sebagai rujukan)

SULIT



SECTION A : 30 MARKS
BAHAGIAN A : 30 MARKAH**INSTRUCTION:**

This section consists of **TWENTY (20)** objective questions. Mark your answers in the OMR form provided.

ARAHAN :

Bahagian ini mengandungi **DUA PULUH (20)** soalan objektif. Tandakan jawapan anda di dalam borang OMR yang disediakan.

CLO1

C1

1. Define the web application.

Kenalpasti aplikasi web.

A. Application that is accessed through internet or intranet.

Aplikasi yang boleh dicapai melalui internet atau intranet

B. Application that is accessed using modem hardware.

Aplikasi yang boleh dicapai menggunakan perkakasan modem.

C. Application that is accessed using PC and mobile phone.

Aplikasi yang boleh dicapai menggunakan PC dan telefon mudah alih.

D. Application that is accessed through internet connection.

Aplikasi yang boleh dicapai melalui sambungan internet.

CLO1

C3

2. According to the statement in Figure A1, select the **CORRECT** answer.

*Berdasarkan kenyataan dalam Rajah A1, pilih jawapan yang **BETUL**.*

"A software application that able retrieving, presenting, and traversing information resources on the World Wide Web."

Figure A1/Rajah A1

- A. Web Crawler

- B. Search Engine

Enjin Carian

- C. Web Browser

Web Pelayar

- D. Web Portal

- CLO1 C1 3. Identify the correct HTML tag used to insert a horizontal line in a web page.
Kenal pasti "tag" HTML untuk memasukkan garis mendatar dalam laman web.
- A. <hr>
B. <line>
C. <line direction= "horizontal">
D. <tr>
- CLO1 C2 4. Determine the **CORRECT** HTML code to add a background color?
*Kenalpasti kod HTML yang **BETUL** untuk menambah warna latar belakang?*
- A. <body color = "yellow">
B. <body bgcolor = "yellow">
C. <background>yellow</background>
D. <body background = "yellow">
- CLO1 C3 5.

```
<html>
<head><title>Your Favourites</title></head>
<body>
<form method="post" action="fav.php">
Please enter your name: <input type="text" name="username"
size="45"><p>
Please select your favourite colour:
<input type="radio" name="colour" value="yellow">Yellow
<input type="radio" name="colour" value="magenta">Magenta
<input type="radio" name="colour" value="green">Green
<p>
Please select favourite food:
<input type="checkbox" name="food1" value="Laksa">Laksa
<input type="checkbox" name="food2" value="Curry Mee">Curry
Mee
<input type="checkbox" name="food3" value="Chicken
Chop">Chicken Chop<p>
<input type="submit" value="Submit this form">
<input type="submit" value="Clear">
</body>
</html>
```

Figure A2/Rajah A2

Identify how many errors in the segment code in Figure A2.
Kenalpasti jumlah kesalahan pada potongan aturcara dalam Rajah A2.

- A. 1
B. 2
C. 3
D. 4

CLO2

C1

6. Choose the **CORRECT** statement without syntax error.

Pilih pernyataan yang **BETUL** di bawah yang tiada kesalahan sintak.

- A. <?php name ="Michell'; ?>
- B. <?php echo Hello \$name; ?>
- C. <?php \$number ="John"; ?>
- D. <?php print Hello "\$name"; ?>

CLO2

C2

7. Assume variable A holds the value of 10 and variable B holds 12, then execute $B\%A$.

Choose the correct output for this statement.

Andaikan nilai pembolehubah A adalah 10 dan nilai bagi pembolehubah B adalah 12, kemudian laksanakan operasi $B\%A$. Pilih "output" yang benar untuk pernyataan ini.

- A. 0
- B. 1
- C. 2
- D. 3

CLO2

C2

8. Determine the function to count the number of elements in an array.

Tentukan fungsi untuk mengira bilangan element dalam tatasusunan.

- A. count()
- B. sizeof()
- C. array_count()
- D. count_array()

CLO2

C2

9. Assume variable A holds 10 and variable B holds 20. Identify which of the following comparison operators will generate **TRUE** value.

*Andaikan nilai pembolehubah A adalah 10 dan nilai pembolehubah B adalah 20. Kenalpasti operator perbandingan yang manakah akan menghasilkan nilai **BENAR**.*

- A. (A >= B)
- B. (A != B)
- C. (A > B)
- D. (A == B)

CLO2
C2

10. Identify the differences between **include()** function and **require()** function.

Kenalpasti perbezaan antara fungsi include() dan fungsi require().

- A. **require()** produce a Fatal Error while **include()** results in Warning.
require() hasilkan "Fatal Error" manakala include() hasilkan amaran.
- B. **include()** produced a Fatal Error while **require()** produced a Fatal Error.
include() hasilkan "Fatal Error" manakala require() hasilkan "Fatal Error".
- C. **include()** produced a Fatal Error while **require()** results in Warning.
include() hasilkan "Fatal Error" manakala require() hasilkan amaran.
- D. **include()** produced a Warning while **require()** results in Warning.
include() hasilkan amaran manakala require() hasilkan amaran.

CLO2
C2

11. Predict the output of a PHP code in Figure A3.

Ramalkan "output" yang terhasil daripada kod PHP dalam Rajah A3.

```
<?php
    $result = array ("Database"=>"A+",
                    "Data Structure"=>"B+");
    $y = $result;
    echo $y['Data Structure'];
?>
```

Figure A3/Rajah A3

- A. Data Structure
- B. \$result
- C. A+
- D. B+



CLO2
C3

12. Based on the PHP code in Figure A4, choose the value of the element with **index = 2**.
Berdasarkan kod PHP dalam Rajah A4, pilih nilai bagi elemen dengan indeks = 2.

```
$arr = array();  
$arr[] = 1;  
$arr[] = 22;  
$arr[] = 34;  
$arr[2] = 70;  
$arr[] = 89;
```

Figure A4/Rajah A4

- A. 1
- B. 22
- C. 70
- D. 89

CLO2
C3

13. Choose the output that is produced for the following code in Figure A5.
Pilih "output" yang dihasilkan oleh aturcara dalam Rajah A5.

```
<?php  
  
echo substr("I Love PHP Programming", -15);  
  
?>
```

Figure A5/Rajah A5

- A. I Love PHP Programming
- B. Love PHP Programming
- C. I Love PHP
- D. PHP Programming

CLO2
C3

14. Identify the output in the PHP code in Figure A6.
Kenalpasti "output" untuk kod PHP dalam Rajah A6.

```
<?php
function add($x=10, $y)
{
global $x;
return $x+$y;
}

function multiply($x)
{
return $x= $x * 2;
}

$x=5;
$y = 3;
add($x,2);
echo multiply($x); ?>
```

Figure A6/Rajah A6

- A. 5
- B. 7
- C. 14
- D. 10

CLO2
C3

15. Apply the **CORRECT** statement for Line 3 in Figure A7 to display value 10 as the output.

*Aplikasikan penyataan yang **BETUL** pada "Line 3" dalam Rajah A7 untuk memaparkan nilai 10 sebagai "output".*

<i>Line 1:</i> <?php <i>Line 2:</i> \$burger = 1; <i>Line 3:</i> <i>Line 4:</i> \$pizza = 0; <i>Line 5:</i> for(\$fries= \$burger; \$fries<\$float; \$fries++) <i>Line 6:</i> \$pizza += \$fries; <i>Line 7:</i> echo \$pizza; <i>Line 8:</i> ?>

Figure A7/Rajah A7

- A. \$float = 10;
- B. \$float = 8;
- C. \$float = 5;
- D. \$float = 2;

CLO2
C2

16. Select the correct syntax by using `fwrite()` function to write a value for "Harry Potter and the Socceres Stone\n" to a file handle name \$FoxMovie.

Pilih sintaks yang betul dengan menggunakan fungsi `fwrite()` untuk menulis nilai "Harry Potter and the Socceres Stone\n" kepada fail yang bernama \$FoxMovie.

- A. `$FoxMovie=fwrite("Harry Potter and the Socceres Stone");`
- B. `fwrite($FoxMovie,"Harry Potter and the Socceres Stone");`
- C. `fwrite("Harry Potter and the Socceres Stone", $FoxMovie);`
- D. `fwrite("Harry Potter and the Socceres Stone, $FoxMovie");`

CLO2
C3

17. Identify what might happen if we replace the option "`a+`" mode with "`w`" mode on `fopen()` command as Figure A8.

Kenalpasti apa yang boleh berlaku sekiranya pilihan asal mod "`a+`" digantikan dengan mod "`w`" pada arahan `fopen()` seperti dalam Rajah A8.

`$varfile = fopen("myfile.txt", "a+");`

Figure A8/Rajah A8

- A. Preserved the original content of myfile.txt
Mengekalkan kandungan asal fail myfile.txt
- B. Creates a new file to replace myfile.txt
Mewujudkan sebuah fail baru untuk gantikan myfile.txt
- C. We will lose the original content of myfile.txt
Kita akan kehilangan seluruh kandungan asal myfile.txt
- D. It will not create a new file if myfile.txt does not exist
Tidak akan mewujudkan fail baru sekiranya myfile.txt belum wujud

CLO2
C1

18. Identify **THREE** arguments needed to connect to database.

*Kenalpasti **TIGA** argumen yang diperlukan untuk menghubungkan kepada pangkalan data.*

- A. Domain, host and username

Domain, hos dan kata nama

- B. Username, localhost, and password

Kata nama, "localhost" dan kata laluan

- C. Hostname, username and password

Namahos, kata nama dan kata laluan

- D. Localhost, domain and username

"Localhost", domain dan kata nama

CLO2
C2

19. Identify the **CORRECT** SQL statement to remove a record from a table.

*Kenalpasti pernyataan SQL yang **BETUL** untuk membuang satu rekod daripada suatu jadual.*

- A. DROP FROM tablename WHERE clause

- B. ALTER TABLE tablename

- C. DELETE FROM tablename WHERE clause

- D. DELETE tablename.

CLO2
C3

20.

Table Name: Student

Table Column: Student_ID, Name, Address

Figure A9/Rajah A9

Based on Figure A9, Choose the SQL query to select 'Student_ID', 'Name', 'Address'.

Merujuk kepada Rajah A9, Pilih arahan SQL untuk memilih 'Student_ID', 'Name', 'Address'.

- A. SELECT * Student_ID, Name AND Address FROM Student;
- B. SELECT Student_ID.Student, Address.Student AND Name.Student FROM Student;
- C. SELECT Student_ID, Name, Address FROM Student;
- D. SELECT Student_ID Name AND Address FROM Student;

SECTION B: 70 MARKS**BAHAGIAN B: 70 MARKAH****INSTRUCTION:**

This section consists of **FOUR (4)** structured questions. Answer **ALL** questions.

ARAHAN:

*Bahagian ini mengandungi **EMPAT (4)** soalan berstruktur. Jawab **SEMUA** soalan.*

QUESTION 1**SOALAN 1**

- a) List **TWO (2)** features in PHP

*Senaraikan **DUA (2)** ciri-ciri dalam PHP.*

[2 marks]

[2 markah]

- b) Identify **TWO (2)** web server softwares.

*Kenalpasti **DUA (2)** perisian pelayan web.*

[2 marks]

[2 markah]

- c) Describe an anchor tag in HTML?

Terangkan "tag anchor" dalam HTML?

[2 marks]

[2 markah]

CLO2
C3

d)

- The first item
- The second item

Figure B1/Rajah B1

Write a HTML tag for unordered list by referring the output in Figure B1.

Tuliskan "tag" HTML untuk senarai tidak tertib dengan merujuk gambar Rajah B1.

[2 marks]

[2 markah]

e) Answer the following questions.

Jawab soalan-soalan yang berikut.

CLO2
C1

i. List **TWO (2)** rules for naming the variable in PHP.

Senaraikan **DUA (2)** syarat-syarat penamaan pembolehubah dalam PHP.

[2 marks]

[2 markah]

CLO2
C1

ii. State **TWO (2)** attributes of forms.

Nyatakan **DUA (2)** atribut borang.

[2 marks]

[2 markah]

CLO2
C1

iii. State **TWO (2)** differences between GET and POST method.

Nyatakan **DUA (2)** perbezaan antara "GET" dan "POST" kaedah.

[2 marks]

[2 markah]

QUESTION 2**SOALAN 2**

- a) Question i, ii, and iii are based on Figure B2.

Soalan i, ii dan iii adalah berdasarkan Rajah B2.

```
<?php
$cars=array('Honda'=>'CRV', 'Toyota'=>'Vios',
            'Proton'=>'Preve');
?>
<?php
$colours = array('grey','blue','black','white');
?>
```

Figure B2/Rajah B2

CLO2
C2

- i. Identify the value of **second** and **third** elements in cars array.

Kenalpasti unsur yang kedua dan ketiga dalam tatasusunan 'cars'.

[2 marks]

[2 markah]

CLO2
C2

- ii. State the array types of **cars** and **colours**.

Nyatakan jenis tatasusunan 'cars' dan 'colours'.

[2 marks]

[2 markah]

CLO2
C2

- iii. Write the output for the following codes:

Tulis "output" untuk aturcara dibawah.:

```
echo $cars["Honda"];
echo "</br>";
echo $colours[2];
```

[2 marks]

[2 markah]

b) Question i, ii, and iii are based on the statement below.

Soalan i, ii dan iii adalah berdasarkan kenyataan dibawah.

Write a PHP program using string function to produce the following output by using
\$text = "Web Programming1" :

*Tuliskan program PHP yang menggunakan fungsi 'string' untuk menghasilkan
output seperti berikut dengan menggunakan \$text = "Web Programming1":*

CLO2 i. Output : Position for "Pro" is 4

C3

[2 marks]

[2 markah]

CLO2 ii. Output : Text length is 16

C3

[2 marks]

[2 markah]

CLO2 iii. Output : Sub string of the text is Program

C3

[2 marks]

[2 markah]

CLO2 c)

C2

`fopen ("read.txt", "x+");`

Figure B3/Rajah B3

Describe the PHP segment code in Figure B3.

Terangkan kod segmen PHP dalam Rajah B3.

[2 marks]

[2 markah]

- CLO2
C1 d) MySQL is the most popular database system used with PHP to manipulate data in the databases. State the **TWO (2)** MySQL features.

*MySQL adalah sistem rangkaian data yang terkenal digunakan bersama PHP bagi tujuan manipulasi data. Nyatakan **DUA(2)** ciri-ciri MySQL*

[2 marks]

[2 markah]

- CLO2
C2 e) Based on Table B1, write SQL syntax to update Ali's salary to 3100.00 in table STAFF.

Berdasarkan Jadual B1, tulis sintak SQL untuk mengemaskini gaji Ali kepada 3100.00 dalam jadual STAFF.

Table/Jadual B1: STAFF

Staff_ID	Staff_Name	Salary	Address
1	Alex	4000.00	Johor
2	Ahmad	3000.30	Johor
3	Raju	2000.20	Perak
4	Ali		Kedah

[2 marks]

[2 markah]

CLO2
C3

- f) Based on Table B2, write a command to display all male students' record in STUDENT table by using mysql_query function.

Merujuk Jadual B2, tulis arahan untuk paparkan semua rekod pelajar lelaki dalam jadual STUDENT menggunakan fungsi mysql_query.

Table/Jadual B2 : STUDENT

Stu_ID	Stu_Name	Stu_Gender
01DIP15F2015	Zara Aisyah	female
01DIP15F2020	Iskandar Zulkarnain	male
01DIP15F2022	Stephanie	female
01DIP15F2011	Nitya A/P Ramu	female

[2 marks]

[2 markah]

QUESTION 3**SOALAN 3**CLO1
C1

- a) List **THREE (3)** vital components that are needed to be installed in the computer system to create PHP environment page.

*Senaraikan **TIGA (3)** komponen penting yang perlu di "install" di dalam komputer untuk mewujudkan persekitaran laman PHP.*

[3 marks]

[3 markah]

CLO1
C2

- b) Web page, Browser, Hyperlink, Domain, URL, HTTP and IP Address are terminologies of web server. Explain **THREE (3)** web terminologies that you have learned.

*Web page, Browser, Hyperlink, Domain, URL, HTTP dan IP Address adalah terma didalam pelayan web. Terangkan **TIGA (3)** web terma yang telah anda pelajari.*

[3 marks]

[3 markah]

CLO2
C3

- c) Write HTML syntax to allow user to choose one of the Gender by using radio button and key in input data into text field component as shown in Figure B4.

Tuliskan HTML sintak bagi membolehkan pengguna memilih jantina dengan menggunakan butang radio dan memasukkan data ke dalam komponen medan teks seperti ditunjukkan dalam Rajah B4.

Figure B4/Rajah B4

[3 marks]

[3 markah]

d) Answer each of the following questions.

Jawab soalan-soalan dibawah.

CLO2
C1

i. Explain the differences between cookies and session

Terangkan perbezaan antara "cookies" dan "session".

[3 marks]

[3 markah]

CLO2
C1

ii. Give an example to declare cookies and session.

Berikan contoh deklarasi "cookies" dan "session".

[3 marks]

[3 markah]

e) Based on the Figure B5, answer each of the following questions.

Berdasarkan Rajah B5, jawab setiap soalan dibawah.

```
<?php
$x = array("PHP", "PERL", "JAVA")

for ($i = 0; $i < count($x); $i++)
    echo "$x[$i]<br>";
?
?>
```

Figure B5/Rajah B5

CLO2
C2

(i) Give output for segment code as shown in Figure B5.

Nyatakan "output" bagi keratan arurcara yang ditunjukkan pada Rajah B5.

[3 marks]

[3 markah]

CLO2
C2

(ii) Convert the PHP kod from *for loop* to *foreach*.

Tukar kod PHP dari gegelung "for" kepada "foreach".

[3 marks]

[3 markah]

QUESTION 4**SOALAN 4**

- a) Question i and ii are based on Figure B6.

Soalan i dan ii adalah berdasarkan Rajah B6.

“PHP allows programmer to create user defined function which is used to associate repeated code with one function call.”

“*PHP membenarkan pengaturcara untuk mencipta fungsi takrifan pengguna yang digunakan untuk megulangi aturcara dengan satu panggilan fungsi.*”

Figure B6/Rajah B6

CLO2
C3

- i. Write a function to calculate total payment based on tax rate, quantity of item and price input by user.

Tulis satu fungsi untuk mengira jumlah bayaran berdasarkan kadar cukai, bilangan item dan harga yang dimasukkan oleh pengguna.

[3 marks]

[3 markah]

CLO2
C3

- ii. Write a function to calculate total payment based on the quantity of item and the price input by user. The tax rate is set to 5%.

Tulis satu fungsi untuk mengira jumlah bayaran berdasarkan bilangan item dan harga yang dimasukkan oleh pengguna. Kadar cukai ditetapkan kepada 5%.

[3 marks]

[3 markah]

CLO2
C2

- b) ~~Describe each of the file handling modes below:~~

Jelaskan setiap mod pengendalian fail di bawah:

- i. r
- ii. r+
- iii. w

[3 marks]

[3 markah]

CLO2
C2

- c) Write SQL command to create ‘**Students**’ table to store students’ matric numbers, name and addresses to the record. Set the suitable primary key.

*Tulis arahan SQL untuk cipta jadual bernama ‘**Students**’ untuk menyimpan rekod berkenaan nombor matrik, nama dan alamat pelajar. Tetapkan “primary key” yang bersesuaian.*

[3 marks]

[3 markah]

CLO2
C3

- d) Consider that the MySQL username is **root** and password is **1234**, write a PHP code to connect PHP files with **myclass** database.

*Pertimbangkan yang MySQL username adalah root dan katalaluan adalah 1234, tulis keratan skrip PHP yang boleh menghubungkan fail PHP dengan pangkalan data **myclass**.*

[3 marks]

[3 markah]

SOALAN TAMAT

