



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

Sekolah Pendidikan Profesional dan  
Pendidikan Berterusan  
(SPACE)

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**FINAL EXAMINATION / PEPERIKSAAN AKHIR**  
**SEMESTER 1 – SESSION 2021 / 2022 / SEMESTER 1 – SESI 2021 / 2022**  
**PROGRAM KERJASAMA**

COURSE CODE : DDWZ 2703  
KOD KURSUS

COURSE NAME : WEB PROGRAMMING  
NAMA KURSUS : PENGATURCARAAN WEB

YEAR / PROGRAMME : 2 DDWC / 2 DDWZ  
TAHUN / PROGRAM

DURATION : 3 HOURS (INCLUDING SUBMISSION HOUR)  
TEMPOH : 3 JAM (TERMASUK MASA PENGHANTARAN)

DATE : JANUARY 2022 /  
TARIKH : JANUARI 2022

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**INSTRUCTION / ARAHAN:**

1. The question paper consists of **2 PARTS**: A and B.  
*Kertas soalan terdiri daripada 2 BAHAGIAN: A dan B.*
2. Answer **ALL** questions and write your answers on the answer sheet.  
*Jawab SEMUA soalan dan tulis jawapan anda pada kertas jawapan.*
3. Write your name, matric no., identity card no., course code, course name, section no. and lecturer's name on the first page (in the upper left corner) and every page thereafter on the answer sheet.  
*Tulis nama anda, no. matrik, no. kad pengenalan, kod kursus, nama kursus, no. seksyen dan nama pensyarah pada muka surat pertama (penjuru kiri atas) kertas jawapan dan pada setiap muka surat jawapan.*
4. Each answer sheet must have a page number written at the bottom right corner.  
*Setiap helai kertas jawapan mesti ditulis nombor muka surat pada bahagian bawah penjuru kanan.*
5. Answers should be handwritten, neat and clear.  
*Jawapan hendaklah ditulis tangan, kemas dan jelas menggunakan huruf cerai.*

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**WARNING / AMARAN**

Students caught copying / cheating during the examination will be liable for disciplinary actions and the faculty may recommend the student to be expelled from sitting for exam.

*Pelajar yang ditangkap meniru / menipu semasa peperiksaan akan dikenakan tindakan disiplin dan pihak fakulti boleh mengesyorkan pelajar diusir dari menduduki peperiksaan.*

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This examination paper consists of **9** pages including the cover.  
*Kertas soalan ini mengandungi 9 muka surat termasuk kulit hadapan.*

**ONLINE EXAMINATION RULES AND REGULATIONS**  
**PERATURAN PEPERIKSAAN SECARA DALAM TALIAN**

1. Student must carefully listen and follow instructions provided by invigilator.  
*Pelajar mesti mendengar dan mengikut arahan yang diberikan oleh pengawas peperiksaan dengan teliti.*
2. Student is allowed to start examination only after confirmation of invigilator if all needed conditions are implemented.  
*Pelajar dibenarkan memulakan peperiksaan hanya setelah pengesahan pengawas peperiksaan sekiranya semua syarat yang diperlukan telah dilaksanakan.*
3. During all examination session student has to ensure, that he is alone in the room.  
*Semasa semua sesi peperiksaan pelajar harus memastikan bahawa dia bersendirian di dalam bilik.*
4. During all examination session student is not allowed to use any other devices, applications except other sites permitted by course lecturer.  
*Sepanjang sesi peperiksaan pelajar tidak dibenarkan menggunakan peranti dan aplikasi lain kecuali yang dibenarkan oleh pensyarah kursus.*
5. After completing the exam student must inform invigilator via the set communication platform (eg. WhatsApp etc.) about completion of exam and after invigilator's confirmation leave examination session.  
*Selepas peperiksaan selesai, pelajar mesti memaklumkan kepada pengawas peperiksaan melalui platform komunikasi yang ditetapkan (contoh: Whatsapp dan lain-lain) mengenai peperiksaan yang telah selesai dan meninggalkan sesi peperiksaan selepas mendapat pengesahan daripada pengawas peperiksaan.*
6. Any technical issues in submitting answers online have to be informed to respective lecturer within the given 30 minutes. Request for re-examination or appeal will not be entertain if complains are not made by students to their lecturers within the given 30 minutes.  
*Sebarang masalah teknikal dalam menghantar jawapan secara dalam talian perlu dimaklumkan kepada pensyarah masing-masing dalam masa 30 minit yang diberikan. Permintaan untuk pemeriksaan semula atau rayuan tidak akan dilayan sekiranya aduan tidak dibuat oleh pelajar kepada pensyarah mereka dalam masa 30 minit yang diberikan.*
7. During online examination, the integrity and honesty of the student is also tested. At any circumstances student is not allowed to cheat during examination session. If any kind of cheating behaviour is observed, UTM have a right to follow related terms and provisions stated in the respective Academic Regulations and apply needed measures.  
*Semasa peperiksaan dalam talian, integriti dan kejujuran pelajar juga diuji. Walau apa pun keadaan pelajar tidak dibenarkan menipu semasa sesi peperiksaan. Sekiranya terdapat sebarang salah laku, UTM berhak untuk mengikut terma yang dinyatakan dalam Peraturan Akademik.*

Excerpts from online final exam guidelines

*Petikan daripada panduan peperiksaan akhir dalam talian*

*Universiti Teknologi Malaysia*

**SECTION A[60 MARKS] / BAHAGIAN A[60 MARKAH]****SUBJECTIVES / SUBJEKTIF****INSTRUCTION : Please answer all questions on the answer sheet.****ARAHAN : Jawab semua soalan pada kertas jawapan.**

1. What is web application and how does it differ to web site? Give one example of web application. [ 3M ]

*Apakah yang dimaksudkan dengan aplikasi web dan bagaimana ia berbeza dengan laman web? Berikan satu contoh aplikasi web.*

2. Write a declaration using **PHP** for the following variables:-

*Tuliskan pengisytiharan menggunakan **PHP** bagi pembolehubah berikut:-* [ 3M ]

- i. variable named **area** with the value of **23**.  
*pembolehubah bernama **area** dengan nilai **23**.*
- ii. variable named **grade** with the value of '**A**'  
*pembolehubah bernama **grade** dengan nilai '**A**'*
- iii. variable named **cpa** with the value of **2.67**.  
*pembolehubah bernama **cpa** dengan nilai **2.67**.*

3. List and explain the use of **TEN(10)** HTML tags with a sample HTML statement to use the tag.

*Senaraikan dan jelaskan kegunaan **SEPULUH(10)** tag HTML berserta contoh penyataan HTML untuk menggunakan tag tersebut.*

[ 10M ]

4. Write a HTML code to display a table with the title **List of student by Course** and the following value:

*Tuliskan kod HTML untuk memaparkan jadual dengan tajuk **List of student by Course** dan nilai berikut:* [ 5M ]

No	Course	No of Cases
1	Accounting	238
2	Computing	1455
3	Engineering	721

5. There are several ways to display output in JavaScript. List **THREE(3)** of them and give an example of the appropriate code for your answer.

*Terdapat beberapa cara untuk memaparkan output dalam JavaScript. Senaraikan **TIGA(3)** darinya dan berikan contoh kod yang sesuai untuk jawapan anda.* [ 6M ]

6. Why is CSS important in a web page? Using an inline CSS style and a HTML <body> element, write a suitable statement to set the <body> element background color to be light blue.

Mengapakah CSS penting dalam sebuah laman web? Menggunakan stail CSS dalaman dan elemen HTML <body>, tuliskan pernyataan yang sesuai untuk menetapkan warna latarbelakang elemen <body> untuk menjadi 'light blue'. [ 5M ]

7. What is the output of the following PHP code segment?

Apakah output kod segmen PHP berikut?

[ 5M ]

```
<?php
$noOfCases=30;
for($i=1;$i<$noOfCases;$i++)
{
    if($i == 5)
    {
        echo $i.' will continue '. '<br>';
        continue;
    }
    else if($i==10)
        break;
    else
        echo $i.'<br>';
}
?>
```

8. Write a PHP function name **displayMessage()** which will receive ONE value of positive number, and display a "Hello World" message depending on the value of the number received. For example, if the function receive value 5, it will display "Hello World" for five times.

Tuliskan fungsi PHP yang bernama **displayMessage ()** yang akan menerima SATU nilai nombor positif dan memaparkan mesej "Hello World" berdasarkan nilai nombor yang diterima. Contohnya, jika fungsi menerima nilai 5, ia akan memaparkan mesej "Hello World" 5 kali. [ 6M ]

9. You need to write a PHP program to calculate average weight of FIVE(5) student.

Anda perlu menulis program PHP untuk mengira purata berat LIMA(5) pelajar.

a) Declare an array type **double** named **weight** to store five weight values where the input values in the initial value is 66.8, 45.2, 88, 71.5, 65.9

Isytiharkan satu tatasusunan berjenis **double** bernama **weight** untuk menyimpan lima nilai elemen dimana nilai input dalam tatasusunan 66.8, 45.2, 88, 71.5, 65.9

[2M]

b) Write statements to calculate and display the average value in array **weight** above.

Tulis pernyataan-pernyataan untuk mengira dan memaparkan nilai purata dalam tatasusunan **weight** di atas. [5M]

10. In sending a data from one page to another page in **PHP**, we can use either POST or GET method. What is the difference between POST and GET method? If we want to send some sensitive data such as the password, which method should we choose? Why?

*Dalam menghantar data antara satu halaman ke halaman yang lain dalam **PHP**, kita boleh menggunakan kaedah POST atau GET. Jika kita ingin menghantar beberapa data sensitif seperti kata laluan, kaedah mana yang sepatutnya dipilih? Mengapa?*

[ 5M ]

11. Complete the following **PHP** code segment to display “Tax applied” if salary is more than 5000 and “Entitled for tax exemption” if salary is 5000 or less.

*Lengkapkan segmen kod **PHP** berikut untuk memaparkan “Tax applied” jika gaji lebih dari 5000 dan “Entitled for tax exemption” jika gaji adalah 5000 atau kurang.*

[ 5M ]

```
<?php
$salary = $_POST['salary'];
...
...
>?
```

**SECTION B [ 40 MARKS] / BAHAGIAN B[40 MARKAH]  
PROGRAMMING / ATURCARA**

**INSTRUCTION** : Please answer all questions on the answer sheet.

**ARAHAN** : *Jawab semua soalan pada kertas jawapan.*


**Programming 1: HTML / Pengaturcaraan 1: HTML**

Based on the following specification and web page given, write suitable HTML codes.

*Berdasarkan spesifikasi dan laman web yang ditunjukkan, tuliskan kod HTML yang sesuai.*

[10M]

file:///D:/UniServerZ/www/WEBPROGRAMMING/question/HTML/StaticPagetableAndLink2.html



UTM

UNIVERSITI TEKNOLOGI MALAYSIA

School of Professional and Continuing Education (UTMSPACE)

## Department of Computer Science

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This program will produce graduates that can work as programmer , assistant IT officer, web developer and any related jobs in the ICT industry. The graduates may also further their studies for a Bachelor of Computer Science.

Program	Number of student	Section	Course List
DDWC - Diploma of Computer Science(IT)	120	1. Section 38 2. Section 39 3. Section 40	<a href="#">DDWC - Program Information</a>
DDWZ - Diploma of Computer Science(Multimedia)	80	1. Section 42 2. Section 43	<a href="#">DDWC - Program Information</a>

Your web page must have the following elements:-

*Laman web anda mesti mempunyai elemen-elemen berikut:-*

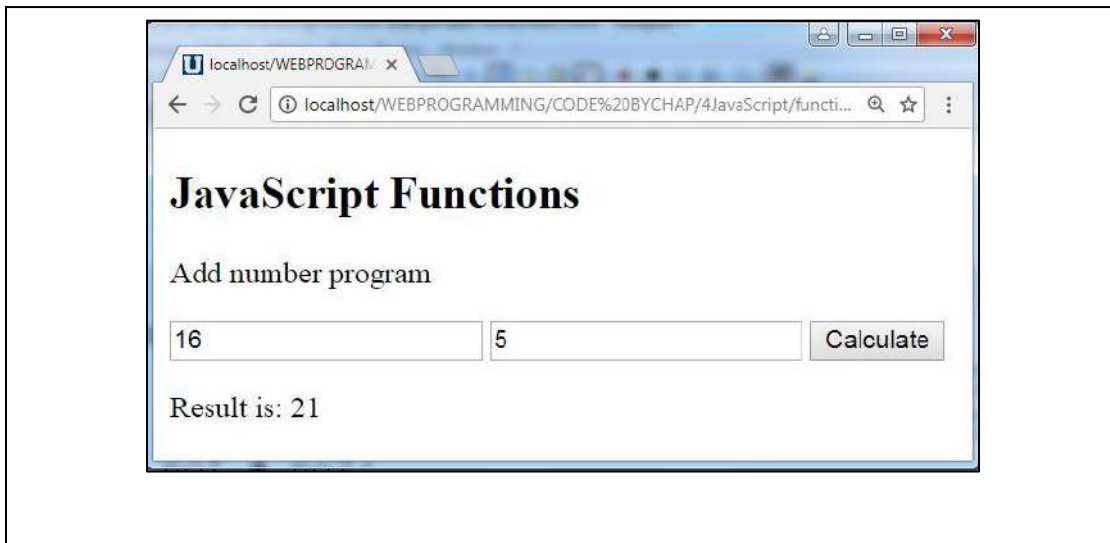
- *Title: UTM*
- *Image from file **utmLogo.png** from the same folder as the html file.*
- *Heading 1 : Department of Computer Science*
- *Horizontal line*
- *Paragraph element :*  
*This program will produce graduates that can work as programmer , assistant IT officer, web developer and any related jobs in the ICT industry. The graduates may also further their studies for a Bachelor of Computer Science.*
- *Horizontal line*
- *Table with link to **ddwc.html** and **ddwz.html***

**Programming 2: JavaScript / Pengaturcaraan 2 : JavaScript**

Based on the following the sample of output screen:-

[ 5M ]

*Berdasarkan kepada sampel skrin output berikut:-*



Write a complete HTML and JAVASCRIPT codes which can add two numbers and display the result.

Use a suitable name for you input and button element.

*Tuiskan kod HTML dan JAVASCRIPT lengkap yang boleh menambah nilai dua nombor dan memaparkan hasilnya. Gunakan nama yang sesuai bagi elemen input dan elemen butang.*

**Programming 3-A: PHP / Pengaturcaraan 3A: PHP**

Write a PHP program to display a form as shown in Figure 1, for user to enter the API value and when the user click on Check Status button , program will determine and display the API Status based on the given table.

Tuliskan aturcara PHP untuk memaparkan borang seperti dipaparkan dalam Rajah 1, kepada pengguna untuk memasukkan nilai API dan apabila pengguna klik butang Check Status program akan menentukan dan memaparkan API Status berdasarkan jadual yang diberikan.

[ 10M ]

The screenshot shows a web browser window titled 'Haze Checker'. The address bar shows 'localhost/WEBPROGRAMMING/hazeCheck...'. The main content area has a heading 'Haze Program'. Below it is a form with the label 'Enter Air Pollutant Index (API):' and an input field containing the number '250'. A 'Check Status' button is positioned below the input field. At the bottom of the form, the text 'Air Pollutant Index (API) is higher than 200. Very unhealthy. Close School' is displayed.

Figure 1: API Status Form / Rajah 1: Borang Status API

API Index Information	
API	Status
0-50	Good
51-100	Moderate
101-200	Unhealthy
201-300	Very Unhealthy
More than 300	Hazardous

Table 1: API Index Status / Jadual 1: Status Indeks API



**Programming 3-B: PHP & MySql / Pengaturcaraan 3B: PHP & MySql**

[ 15M ]

Write the PHP code for **carList.php** which will do the following:-

Tuliskan kod PHP bagi **carList.php** yang akan melakukan yang berikut:-

- I. Create a connection to database  
*Cipta hubungan ke pangkalan data*
  
- II. Run a query to select all car record from the database  
*Laksana satu pertanyaan untuk memilih semua rekod kereta dari pangkalan data*
  
- III. Display car information in a table using a loop  
*Paparkan maklumat kereta dalam satu jadual menggunakan gelung*

You must use the following information in your program:-

Anda mesti menggunakan maklumat berikut dalam aturcara anda:

**Server** : **localhost**  
**User** : **carUser**  
**Password** : **car12Access**  
**Database** : **cardb**  
**Table** : **car**  
**Field in car Table** : **regNumber, brand, regDate**

**List of Car**

No of cars: 4

No	Reg Number	Brand	Reg. Date
1	ABC2356	Perodua	01/03/2017
2	CCC111	Proton	01/08/2017
3	MAP3352	Proton	07/08/2017
4	MNP1123	Toyota	07/08/2017

**[ END OF QUESTION / SOALAN TAMAT ]**