UNIVERSITI UTARA MALAYSIA

FINAL EXAM
FIRST SEMESTER SESSION 2011/2012

COURSE CODE / NAME : STIJ3043 WEB APPLICATION DEVELOPMENT
DATE : 05 JANUARY 2012 (THURSDAY)
TIME : 09.00 A.M – 11.00 A.M (2 HOURS)
VENUE : DSB K. MAS & KYM

INSTRUCTION :

1. This exam paper contains TWO (2) sections.
2. FOUR (4) questions in section A and ONE (1) question in section B. This exam paper contains EIGHT (11) printed pages, excluding the cover page.
3. Answer ALL QUESTIONS on the answer sheets provided.
4. You are NOT ALLOWED to remove the exam paper from the examination hall.

MATRIC NO : ____________________________________________________________
(with word ) 

IDENTIFICATION CARD NO : ______________________________________________

LECTURER : AHMAD TAJUDIN BIN BAHARIN

GROUP : ___________________________ TABLE NO : ____________________

DO NOT OPEN THIS EXAMINATION PAPER UNTIL INSTRUCTED

CONFIDENTIAL
SECTION A: FOUR (4) Structured Questions (80 Marks)

1. PHP Hypertext Preprocessor is an open-source server side programming language. It's also designed to fill the gap between static HTML pages and fully dynamic pages such as those generate through CGI code.

   a) Define the term "embedded language" as it applies to PHP? (2 marks)

   b) There are 4 type of PHP code declaration block / delimiters. List THREE (3) PHP delimiter that may use in PHP language. (6 marks)
c) Write the code to display output below.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10123</td>
<td>XN9213J4K2</td>
</tr>
<tr>
<td>12345</td>
<td>67890</td>
</tr>
<tr>
<td>24680</td>
<td>13579</td>
</tr>
</tbody>
</table>

Server API: 10123

Optional Directory Support: Enabled

Configuration File (php.ini):

- SiteRoot: D:\Program Files\Zend\Common\php

PHP API: 10123

PHP Extension: 1234567890

Zend Extension: 101234567890

Debug Build: No

Thread Safety: Enabled

Zend Memory Management: Enabled

IPV6 Support: Disabled

Registered PHP Streams:

- HTTPS, HTTP, FTP, file, dat, pipe, compression

Registered Stream Sockets Transports:

- TCP, UDP, SSL, SMS, SMS2, SSH

Registered Stream Filters:

- output_filter, url_filter, input_filter, string_filter, gzip_filter, content_filter, zamo_filter

(3 marks)
d) List THREE (3) differences between static and dynamic web page.

(4 marks)
2. After you installed PHP, MySQL, Apache using ZAMP / WAMP. There have a link to display you PHP Diagnostics Information Web Page (Refer to question 1(c)). A lot of information you will get from that page such as installation environment and path of configuration files.

a) File "php.ini" is located in "c:\windows" while you installed PHP in Windows environment, where is the location of the file if you install PHP in LINUX environment?

(1 marks)

b) List FIVE STEP (5) step on how to install APACHE Server into Windows environment.

(5 marks)

c) List FIVE STEP (5) step on how to install PHP into Windows environment.

(5 marks)
d) List **FIVE STEP (5)** step on how to configure Apache to accept extension of .php Server into Windows environment.

(5 marks)

e) List **FIVE STEP (12)** step on how to install and configure MySQL into Windows environment.

(12 marks)
3. The process of determining the order in which statements execute in a program is called decision making or flow control. The most of decision making statement is the “if” statement.

a) Write a code to display and count odd numbers from 1 to 100

(5 marks)

b) Replace a do...while code below to for statement?

```php
do {
    $Dice[0] = rand(1,6);
    $Dice[1] = rand(1,6);
    $Score = $Dice[0] + $Dice[1];
    echo "<p>";
    echo "The total score for roll $RollNumber was $Score. <br />";
    $Doubles = checkForDoubles ($Dice[0] , $Dice[1] );
    DisplayScoreText ($Score , $Doubles);
    echo "</p>";
    if ($Doubles) 
        ++ $DoublesCount;
    ++$RollNumber;
} while ($RollNumber <= 5);

(3 marks)
c) State **TWO (2)** different of global variables and local variables.  

(4 marks)

d) Give **TWO (2)** suggestion that enable you to called your variables in short ways.  

(4 marks)
4. A database is an ordered collection of information that a computer program can quickly access. MySQL is probably the database used most often with PHP, it is just one of many databases that PHP can manipulate direct or through Open Database Connectivity (ODBC).

a) What command to display all the database name in your DBMS, after login the MySQL database using command prompt / text editor (displayed below)

```
C:\Program Files\MySQL\MySQL Server 4.1\bin\mysql -u root -p
```

Enter password: ***** Welcome to the MySQL monitor. Commands end with ; or ".
Your MySQL connection id is 21 to server version: 4.1.9-nt Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
```
mysql> -
```

(2 marks)

b) What command that we use to delete the database, example database name is “personal”.

(2 marks)
c) Write codes that show the display below

MySQL Database Server Information

MySQL client version: 4.1.7
MySQL connection: localhost via TCP/IP
MySQL protocol version: 10
MySQL server version: 4.1.9-nt

(12 marks)

d) Why do AJAX-enable web application offer a more responsive user interface than traditional web applications?

(4 marks)
SECTION B : ONE (1) Questions (20 Marks)

1) Write a code to show the display below

<table>
<thead>
<tr>
<th>Make</th>
<th>Model</th>
<th>Price</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin</td>
<td>D15 Spruce and Rosewood</td>
<td>1370.00</td>
<td>2</td>
</tr>
<tr>
<td>Washburn</td>
<td>D30s</td>
<td>799.99</td>
<td>5</td>
</tr>
<tr>
<td>Washburn</td>
<td>D100</td>
<td>329.90</td>
<td>10</td>
</tr>
<tr>
<td>Martin</td>
<td>D15 Limited Edition</td>
<td>1138.60</td>
<td>1</td>
</tr>
<tr>
<td>Fender</td>
<td>DG11</td>
<td>285.70</td>
<td>8</td>
</tr>
<tr>
<td>Martin</td>
<td>DX1 Dreadnought</td>
<td>699.00</td>
<td>9</td>
</tr>
<tr>
<td>Fender</td>
<td>DG7</td>
<td>368.20</td>
<td>14</td>
</tr>
<tr>
<td>Taylor</td>
<td>Baby Taylor Mahogany</td>
<td>348.00</td>
<td>7</td>
</tr>
<tr>
<td>Washburn</td>
<td>D10s</td>
<td>349.99</td>
<td>18</td>
</tr>
<tr>
<td>Yamaha</td>
<td>FG720S</td>
<td>279.99</td>
<td>3</td>
</tr>
</tbody>
</table>

Database Name : Company cars.

(20 marks)
END OF QUESTIONS