MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

FINAL EXAMINATION

JANUARY 2016 SEMESTER

SUBJECT CODE	:	ISB42503
SUBJECT TITLE	:	INTERNET PROGRAMMING
LEVEL	:	BACHELOR
TIME / DURATION	:	23 MAY 2016 (2 ½ HOURS)
DATE	:	2.00 pm – 4.30 pm

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper CAREFULLY.
2. This question paper is printed on both sides of the paper.
3. This question paper consists of TWO (2) sections. Section A and B.
4. Answer ALL questions in Section A. For Section B, answer THREE (3) ONLY.
5. Please write your answers on the answer booklet provided.
6. Answer all questions in English.

SECTION A (Total: 40 marks)

INSTRUCTION: Answer ALL questions.
Please use the answer booklet provided.

Question 1

(a) In your own words, define static websites and dynamic websites.

(5 marks)

(b) You are given two numbers which stored temporarily in **number1** and **number2**. From those numbers, write PHP code segment using **if** statement that identify the biggest number.

(3 marks)

(c) From Question 1(b) above, write PHP code to print the output of the biggest number.

(2 marks)

Question 2

Produce the output for the following PHP code segments:

(a)
```
function myTest() {
   static $x = 0;
   echo $x;
   $x++;
}

myTest();
myTest();
myTest();
```

(1 mark)

(b)
```
<?php
for ($x = 0; $x < 6; $x++) {
  echo "The number is: $x <br>";
}
?>
```

(3 marks)

(c)
```
$totalqty = 0;
$totalqty = $tireqty + $oilqty + $sparkqty;
echo 'Items ordered: " .$totalqty."<br />;
$totalamount = 0.00;
define ('TIREPRICE', 100);
define ('OILPRICE', 10);
define ('SPARKPRICE', 4);

$totalamount = $tireqty * TIREPRICE + $oilqty * OILPRICE
                + $sparkqty * SPARKPRICE;
echo "Subtotal : $".number_format($totalamount,2)."<br />";
$taxrate = 0.10;
$totalamount = $totalamount * (1 + $taxrate);
echo "Total including tax: $".number_format($totalamount, 2)."<br />";
```

(6 marks)

Question 3

(a) Write a PHP statement to store the course names; Marketing, Telecommunication, Internet Programming, Econometrics, Software Engineering, e-Commerce and Database in an index array in the given sequence. Use a suitable name for the array.

(3 marks)

(b) Based on the PHP statement in question 3(a), write a PHP code to sort the course names in ascending order.

(2 marks)

(c) By using a suitable loop structure, based on the PHP statements in Question 3(a) and 3(b) above, write the PHP code to print all course names. The output is as shown below.

Marketing
Telecommunication
Internet Programming
Econometrics
Software Engineering
e-Commerce
Database

(2 marks)

(d) Write PHP code segments to display "Hello World!" by using **function** call.

(3 marks)

Question 4

(a) Write the PHP code segment to calculate the gross salary which is based on the sum of basic salary, telephone allowance and food allowance. The net salary is the result of deduction 10% EPF and 2% income tax respectively, from the gross salary.

(2 marks)

(b) Based on your answer in Question 4(a) above and Table 1 given below, trace the output by completing the following Table 2: Salary Calculation.

Table 1: Salary and Allowances

Basic Salary	Telephone Allowance	Food Allowance
2000	50	25
3000	70	50
4000	100	75
5000	150	100

Table 2: Salary Calculation

Basic Salary	Gross Salary	Net Salary
2000		
3000		
4000		
5000		

(8 marks)

SECTION B (Total: 60 marks)

INSTRUCTION: Answer THREE questions ONLY.
Please use the answer booklet provided.

Question 5

(a) Write a complete HTML script of the form named **feedback.html** as shown in Figure 1 below. It is given that:

i) Method of the form is POST and the PHP file reading the input from this form is **handle_feeback.php.**

ii) Title bar displays the text 'Feedback Form'.

iii) Input box for comments will display 3 rows and 40 columns.

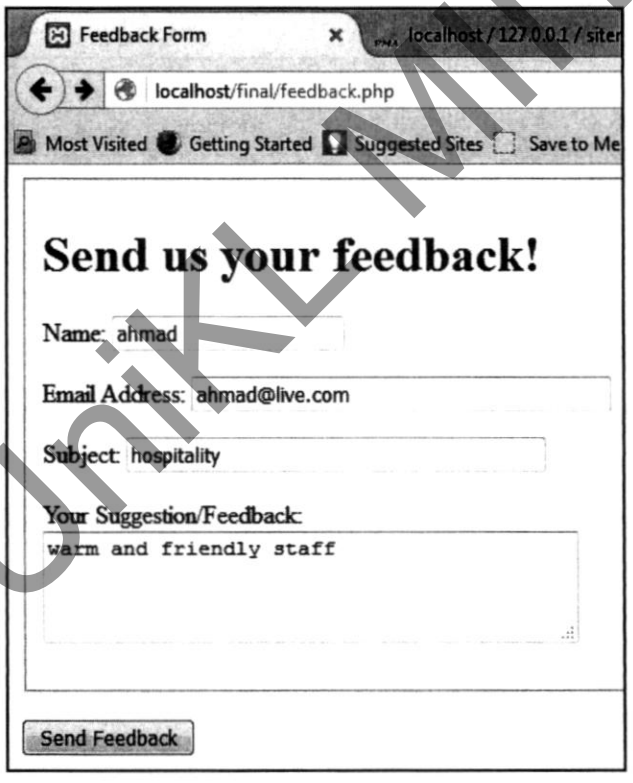

Figure 1: Feedback Form

(12 marks)

(b) Write a complete PHP script named **handle_feedback.php** that will show an error message (Figure 2) and a successful message (Figure 3).

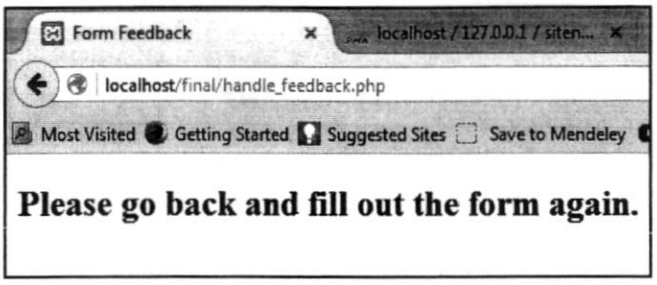

Figure 2: Error Message (If input fields are left blank)

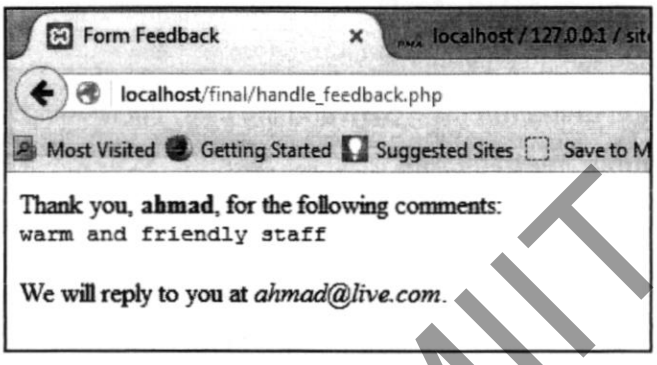

Figure 3: Successful Message

(8 marks)

Question 6

Write the complete PHP script named **curr_converter.php** as shown in Figure 4 below. It is given that:

i) Method of the form is POST and the PHP file reading the input from **curr_converter.php.**

ii) Title bar displays the text 'Currency Converter'.

iii) The program shall display an error message on the same page (Figure 5) if the input is left blank and the user enters invalid data type.

iv) The program shall display the conversion result (Figure 6) on the same page if there are no error occurred.

v) 1 USD = 4.35 MYR

Figure 4: Currency Converter

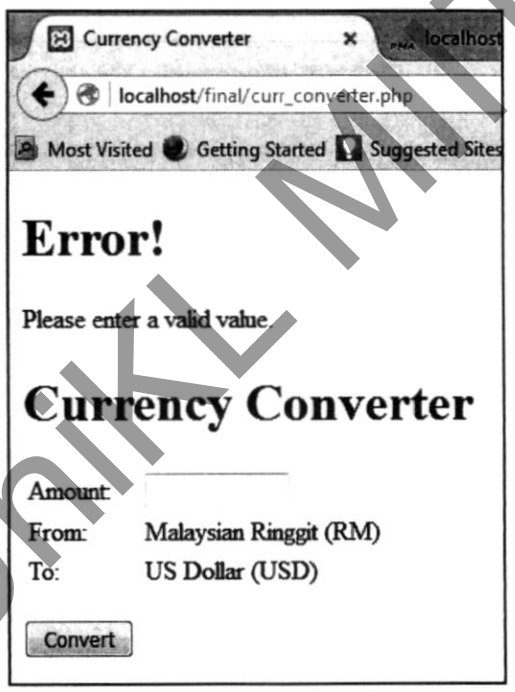

Figure 5: Error Message (If input fields are left blank)

Figure 6: Successful Message

(20 marks)

Question 7

Using SQL commands, answer the following questions:

(a) Create a new database. The database name is **football**.

(1 marks)

(b) This database consists **players_info** table as shown in Table 3. Create the **players_info** table.

Table 3: players_info table

Field	Type	Null	Key	Default
player_id	Int(6)	NO	PRIMARY	
f_name	varchar(20)	NO		
l_name	varchar(20)	NO		
seasons_played	varchar(10)	NO		NULL
team_id	varchar(5)	NO		NULL
won_championship	varchar(5)	NO		NULL

(7 marks)

(c) Insert **Ivan Rodriguez** records into the **players_info** table as shown in Table 4.

Table 4: players_info table

player_id	f_name	l_name	season_played	team_id	won_championship
1	Nolan	Ryan	27	4	0
1	Nolan	Ryan	27	3	2
2	Jim	Sundberg	16	1	0
2	Jim	Sundberg	16	5	0
3	Ivan	Rodriguez	21	1	0
3	Ivan	Rodriguez	21	2	1

(4 marks)

(d) List all players from the team that have won one championship, showing the player_id, first name, last name and the team name. (Use Table 4 and Table 5).

Table 5: team table

team_id	team_name
1	Texas Rangers
2	Florida Marlin
3	New York Mets
4	California Angels
5	Milwaukee Brewers
6	New York Yankees

(4 marks)

(c) Update new record to the table **player_info** as shown in Table 6.

Table 6: update record

player_id	f_name	l_name	season_played	team_id	won_championship
1	Nolan	Ryan	27	4	3

(4 marks)

Question 8

Using the Table 7 and Table 8 answers the following SQL questions.

Table 7: agent table

agent_code	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5003	Lausen en	San Jose	0.12

Table 8: customer table

cust_code	name	city	agent_code
3002	Nick Ryan	New York	5001
3005	David Wolf	California	5002
3001	Bradon Well	London	5005
3004	John Mars	Paris	5006
3007	Davis Loo	New York	5001

(a) Prepare a list of agent names, customer names where the agent serves the customer in the city of New York.

(5 marks)

(b) Prepare a list which agent is working in the city of New York.

(3 marks)

(c) Display names and city of the agent who has commissioned between 0.11 and 0.15.

(5 marks)

(d) Delete the record of the agent from New York

(3 marks)

(e) Update the commission of the agent based on Table 9 below.

Table 9: update record

agent_code	name	city	commission
5001	James Hoog	New York	0.17

(4 marks)

END OF EXAMINATION PAPER