

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY
DEPARTMENT OF INFORMATION & MEDIA TECHNOLOGY
FIRST SEMESTER EXAMINATION, 2012/2013 ACADEMIC SESSION

Course Code: CIT 414
Credit Unit: 2

Course Title: *Web Database Applications*
Time Allowed: *2 hours*.

Instruction: Answer only three (3) questions

Question 1

- a. The HTML script below is required for file input data to be submitted to the web application server. Complete the form tag in line 4 by writing the missing attribute (and its appropriate value) of the tag for data submission to be successful.

```
1 <html>
2 <body>
3     <h3 align = "center">CV Upload page</h3><hr/>
4     <form name = "testform" action = "upload.php" method = "post">
5         Matric No: <input type= "text" name = "matno"/><br/>
6         Upload your CV(Only PDF files not more than 1.2MB in size):
7         <input type="file" name="cv"/>
8         <br/>
9         <input type="submit" name= "submit" value = "Upload"/>
10    </form>
11 </body>
12 </html>
```

- b. (i) Name the global variable in PHP through which you can access the attributes of the input expected in line 7.
(ii) List four (4) attributes that may be needed to validate and store the expected input in line 7.
- c. (i) Propose the content of “**upload.php**” file that will validate the uploaded file with the specified conditions and save it with the user’s matriculation number in a folder called “**CV_upload**” in the same directory as the PHP file.
(ii) Extend your PHP script in c(i) above to open a text file called “**uploaded.txt**” and add the user’s matriculation number to its content. *You are to assume that “uploaded.txt” already exists in the same directory as your PHP file and remember to close the file after use.*

Question 2

- a. The `fopen(“file_name”, “mode”)` function can be used to open files in PHP. Write five possible values that can be assigned to the parameter “mode” and the corresponding interpretations.

b. Write the use(s) of each of the following PHP file functions:

- (i) fclose()
- (ii) feof()
- (iii) fwrite()
- (iv) fgets()
- (v) fgetc()

c. Assuming the list given below is part of a long list saved in a text file named "members.txt".

```
George Olufemi
Muazu Kabiru
Chukwu Eunice
Olagunju Hannah
...
```

Write a PHP script to read the file and displays all the names in the list in an HTML table in the format shown below:

Serial No	Full Name
1	George Olufemi
2	Muazu Kabiru

Hint: feof() and while loop construct may be useful here.

Question 3

a. Complete the table below using your knowledge of the 3-tier Architecture of Web-Database Applications

Component	Functions	Example 1	Example 2
	Performs logical computations and connects to the database		
	Supplies web pages to the web browser		
	Allows the persistent storage in a well structured format, retrieval, update and removal of user data		
Web Browser	Renders web pages on the client and submits form requests to the server via HTTP	Google Chrome	

The screen shot displayed below was extracted from mysql database console. A table named “scores” is contained in a database called “cit_exams”. The user name and password for accessing the database are “imtstudents” and “student” respectively. Use this information to answer questions 3 (b) and (c).

```
mysql> select *from scores;
```

matricno	lastname	firstname	coursecode	coursetitle	score
2009/IMT/123	George	Olufemi	CIT414	Web Database Applications	82
2009/IMT/034	Olusegun	Adekola	CIT414	Web Database Applications	49
2009/IMT/123	George	Olufemi	CIT312	Database System Design	68
2009/IMT/220	Kabiru	John	CIT400	Information System Design	75
2009/IMT/123	George	Olufemi	CIT400	Information System Design	70
2009/IMT/087	Johnson	Babangida	CIT414	Web Database Applications	65

- b. Suppose you have a web page containing a form with input fields corresponding to the fields in table “scores” and having the same names. Considering that you do not know whether the **method** attribute of the web form is POST or GET, Write a PHP script to save the form data in table “scores”. [You don’t need to validate the fields]
- c. The HOD IMT has a web page containing a select box containing all course codes. He wants to be able to select a course code and see the scores in descending order. For example, if he selects “CIT414”, the output should be as shown in the table below:

Matric no	Score
2009/IMT/123	82
2009/IMT/087	65
2009/IMT/034	49

Write a PHP script to connect his webpage to table “scores” assuming he used method POST in his form and his select box has name “course”.

Question 4

- a. (i) Briefly describe **session** and its use in PHP.
(ii) State the use of each of the following variables and functions with respect to sessions in PHP; **SESSION[]**, **session_start()** and **session_destroy()**.
- b. (i) The PHP script given below contains some bugs, identify the bugs by stating the line number(s) and the associated error(s).


```

1 <?php
2 $myFile = "C:\temp\test.txt";
3 if (!($fh=fopen($myFile, "w")))
4     exit("Can't open file\n");
5 $lineno = 1;
6 while ($lineno<=5)
7 {
8     $x=fopen($fh, "a+");
9     $lineno++;
10    fclose($fh);
11 }
12 ?>

```

(ii) Write the output for the piece of code listed below. Justify your answer with sufficient explanation of each run through the code.

```

1 <?php
2 function levelquery() {
3     static $level = 1;
4     echo $level.", ";
5     $level++;
6 }
7 for($i = 0; $i<=4; $i++)
8     levelquery();
9 ?>

```

- c. Briefly discuss what happens when each of the following keywords are executed in a loop construct
- Break
 - Continue

Good luck!