



**MOSHOOAD ABIOLA POLYTECHNIC, ABEOKUTA
DEPARTMENT OF COMPUTER SCIENCE
FIRST SEMESTER EXAMINATION 2023/2024 SESSION**

COURSE TITLE: SOFTWARE DEVELOPMENT USING PHP
COURSE CODE: COM 411 **UNITS:** 3 **TIME ALLOTTED:** 3 HOURS
CLASS: HND II COMPUTER SCIENCE (FULL /PART TIME)

INSTRUCTIONS: SECTION A: Answer any four (4) questions in All: SECTION B:
Attempt any ONE (1) question

QUESTION 1

- (a) With the aid of well-labelled diagram, describe Entity-Relationship Model and its Features with examples
 - (b) Write briefly on TCP, HTTP, HTTPS, UDP, FTP and IP/TCP
 - (c) What is Web Application? And list any five (5) examples of web Apps
 - (d) List and explain any seven (7) OSI Layers Model

(20marks)

QUESTION 2

- (a) Explain these: Web cache,cookies,POP3,DNS and IMAP with examples (5marks)
(b) With the aid of well-labelled diagram, describe Webserver/Client technology (5marks)
(c) Discuss Hierarchical data model and with any five(5) features with examples (5marks)
(d) What are the Web based application development procedures (5marks)

QUESTION 3

- (a) Describe the meaning of Web server and to what extent in software development

(b) Write briefly on the following:

 - (i) URL/SSH
 - (ii) HTTP Response status code
 - (iii) TLD and Authoritative servers
 - (iv) P2P Architecture
 - (v) POP/IMAP/SMTP/IPV4/IPV6

(c) With the aid of well-labelled diagram, describe Software development Life cycle

(20marks)

QUESTION 4

- (a) Explain the Reading/Writing in PHP with examples of related script files (5marks)
(b) What is an Array and Function in PHP with examples in a codes format (5 marks)
(c) What do you understand by these, \$_GET and \$_POST superglobal Array in PHP Scripts with examples. This must be done PHP codes (10marks)

QUESTION 5

- (a) With the aid of well-labelled diagram or table structured, explain the following terms:
(i)Entity-Relationship model, (ii) Database management system(DBMS),(iii)OSI-model

(b)Discuss Structured Query language (SQL) and list any five (5) examples

(c)Write the SQL query to create a database and table for XYZ Business Enterprise "Employee" with five field names (Employee Id INTEGER PRIMARY KEY, First name CHAR () NULL, Last name

SECTION B (Alternative to Practical Attempt any ONE (1) question from this section

QUESTION 6

- 6a Explain at least five steps or procedures necessary to convert your system to a localhost by installing XAMPP. 10 Marks
- 6b As a developer using php for web development, can you interpret or explain each of the php code work in 1b to 1f:
- ```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";
```
- 2 Marks
- 6c //
- ```
$conn = new mysqli($servername, $username, $password, $dbname);
//
```
- if (\$conn->connect_error) {
 die("Connection failed: " . \$conn->connect_error);
}
- 2 Marks
- 6d //
- ```
$sql = "SELECT * FROM myTable";
$result = $conn->query($sql);
```
- 2 Marks
- 6e //
- ```
if ($result->num_rows > 0) {
    //
    while($row = $result->fetch_assoc()) {
        echo "ID: " . $row["id"] . " - Name: " . $row["name"] . " - Age: " . $row["age"] . "<br>";
    }
} else {
    echo "0 results";
}
```
- 2 Marks
- 6f //
- ```
$conn->close(); ?>
```
- 2 Marks

**QUESTION 7**

- 7a Explain at least five usage and benefits of phpmyAdmin bundled with XAMPP. 10 marks
- 7b Create a simple PHP script to display the current date and time. 2 Marks
- 7c What is the syntax for declaring a variable in PHP? 2 Marks
- 7d List and explain at least four (4) different data types supported by PHP? 2 Marks
- 7e What is the purpose of the '\$\_POST' array in PHP? 2 Marks
- 7f Explain using codes, how to connect to a MySQL database using PHP? 2 Marks