



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY  
DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

FIRST SEMESTER 2015/2016 EXAMINATION

**COURSE CODE:** CIT414  
**COURSE TITLE:** Web based Application  
**CREDIT UNITS:** 2  
**TIME ALLOWED:** 2Hours  
**COURSE LECTURER(S):** Mr. H. A. Zubairu  
**NUMBER OF QUESTIONS:** Section A and B (6 in A, 15 in B)  
**NUMBER OF PAGES:** 4 (INCLUDING THIS PAGE)

**INSTRUCTIONS**

- Answer all questions
- Do **not** use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only

## SECTION A

1. Compare GET and POST with respect to the following criteria: method of sending information, usage, and limitations. (6 marks)
  - b) Give a detailed but simple example in both cases to illustrate the usage (4 marks)
2. a) What is a Superglobal variable? Give **four (4)** examples. (4 marks)
  - b) What is a Static variable? Give a detailed example to illustrate the usage of a static variable. (6 marks)
3. a) List the **components** of a typical "N-Tier" Architecture? (3 marks)
  - b) What is the **significance** of "Tiers" in N-tier architectures? (2 marks)
  - c) Describe **succinctly** the **architecture principles** of a typical three-tier architecture (Use Diagrams where appropriate). (5 marks)
4. a) Outline **four (4)** differences between constants and variables in php. (4 marks)
  - b) Briefly outline **three (3)** features of each of the layers in three-tier architecture. (2 marks)
5. Write a php function that will compute the sum of two numbers given as an input to it. Within your document, call your function with specified input numbers and output the result to the document. (3 marks)
6. (a) Which language construct can best represent the following series of if conditionals? (1 mark)

```
<?php
    if($a == 'a') {
        somefunction();
    } else if ($a == 'b') {
        anotherfunction();
    } else if ($a == 'c') {
        dosomething();
    } else {
        donothing();
    }
?>
```

- (b) Rewrite the code above using the language construct in you answered to question 6(a)  
(3 marks)



7. Study the following php script carefully and determine the correct functions to replace the gaps labeled I,II and III.

```
<?php
$authors = array( "Bolanle", "Fatou", "Set", "Bolu", "Benny", );
echo "<p> The array: " . print_r( $authors, true ) . "</p>";
echo "<p> The current element is: " . current( $authors ) . ". </p>";
echo "<p> The next element is: " . next( $authors ) . ". </p>";
echo "<p> ...and its index is: " . .....I..... ". </p>";
echo "<p> The next element is: " . next( $authors ) . ". </p>";
echo "<p> The previous element is: " . prev( $authors ) . ". </p>";
echo "<p> The first element is: " . .....II..... ". </p>";
echo "<p> The last element is: " . .....III..... ". </p>";
echo "<p> The previous element is: " . prev( $authors ) . ". </p>";
?>
```

(3 marks)

### SECTION B

This section carries 1 mark each, except question 13 and 15 that carries 2 marks each

1. The \_\_\_\_\_ function is used to read a single line from a file and is used when dealing with text files.
2. Although file resources will automatically be closed at the end of a request in PHP when working with files, you can close them explicitly by calling the \_\_\_\_\_ function.
3. Which parameters would you pass to fopen() in order to open a file for reading and writing?
4. Which function is specifically designed to write a string to a text file?
5. What does the php time() function do?
6. What will the following script output on a Windows machine?

```
<?php
echo mktime (0, 0, 0, 11, 11, 1982); // December 12, 1982
?>
```

7. Array values are keyed by \_\_\_\_\_ values (called indexed arrays) or using \_\_\_\_\_ values (called associative arrays). Of course, these key methods can be combined as well.
8. A class can be built as an extension of other classes using a process known as inheritance. In PHP, how many parents can a child class inherit from?

9. Which php operator returns True if either of its operands can be evaluated as True, but not both?
10. How does the identity operator `===` compare two values?
11. Which function is used for terminate the script execution in PHP?
12. What will be the output of PHP code below?

```
<?php
$str = "3naira";
$a = 20;
$a += $str;
print($a);
?>
```

13. PHP provides you with two main ways to connect to MySQL databases namely..... and .....
14. .... is used to store information on client computers and also to track preferences and other information.
15. The ..... function is used to divide string into substrings given a certain delimiter while the .....function is used to trim the new line character.