



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

FIRST SEMESTER 2014/2015 EXAMINATION

COURSE CODE: CIT414
COURSE TITLE: WEB DATABASE APPLICATIONS
CREDIT UNITS: 2
TIME ALLOWED: 2 HOURS
COURSE LECTURER(S): MRS. B.L. MUH'D BELLO AND MR. S.O. GANIYU
NUMBER OF QUESTIONS: THEORY (3), FILL IN THE GAP (20)
NUMBER OF PAGES: 4

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. a) 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)

SECTION B

1. 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)
2. The _____ function is used to read a single line from a file and is used when dealing with text files.(1 mark)
3. 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.(1 mark)
4. Which parameters would you pass to fopen() in order to open a file for reading and writing?(1 mark)
5. Which function is specifically designed to write a string to a text file?(1 mark)
6. What does the php time() function do?(1 mark)
7. What will the following script output on a Windows machine?(2 marks)

```
<?php  
echo mktime (0, 0, 0, 11, 11, 1952); // November 11, 1952  
?>
```

8. 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.(2 marks)
9. What is the construct used to define the blueprint of an object called?(1 mark)



10. 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?(1 mark)
11. Which php operator returns True if either of its operands can be evaluated as True, but not both?(1 mark)
12. How does the identity operator `===` compare two values?(1 mark)
13. Which function is used for terminate the script execution in PHP?(1 mark)
14. What will be the output of PHP code below?(1 mark)

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

15. 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();
    }
?>
```

16. Rewrite the code above using the language construct in you answered to question 16 above. (3 marks)
17. PHP provides you with two main ways to connect to MySQL databases namely..... and(2 marks)
18. Study the following php script carefully and determine the correct functions to replace the gaps labeled I,II, and III.(3 marks)



```
<?php
$authors = array( "Camilla", "Mohammed", "Kingsley", "Murjanatu" );
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>";
?>
```

19. is used to store information on client computers and also to track preferences and other information.(1 mark)
20. The function is used to divide string into substrings given a certain delimiter while thefunction is used to trim the new line character.(2 marks)

Best of luck.