

FEDERAL UNIVERSITY OF TECHNOLOGY MINNA
SCHOOL OF INFORMATION & COMMUNICATION TECHNOLOGY
DEPARTMENT OF INFORMATION & MEDIA TECHNOLOGY
FIRST SEMESTER EXAMINATION 2019/2020 SESSION
CIT 414: WEB DATABASE APPLICATIONS

INSTRUCTION: Answer ALL QUESTIONS in SECTION A and Only Two (2) Questions from SECTION B.
TIME ALLOWED: 2 HRS

SECTION A

(30 marks)

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

```
<?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.
9. The _____ function is used to create a timestamp, it returns the Unix timestamp for a specified date.
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?
11. Which php operator returns True if either of its operands can be evaluated as True, but not both?
12. How does the identity operator `===` compare two values?
13. Which PHP function is used to terminate the execution of a script?
14. What will be the output of PHP code below?

```
<?php
$str = "8naira";
$a = 20;
$a += $str;
print($a);
?>
```

15. Which php language construct can best represent the following series of if conditionals?

```
<?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 your answer to question 15 above.
17. PHP provides you with two main ways to connect to MySQL databases namely.....
and
18. Study the following php script carefully and determine the correct PHP functions to replace the gaps labeled **I,II** and **III**.

```

<?php
$authors = array( "Maryam", "Daniel", "Joy", "Chidimma" );
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.
20. Write the code to open "attendance.txt" file in **append only** mode.

SECTION B (30 marks)

1. Compare **GET** and **POST** with respect to the following criteria: **method of sending information, usage, and limitations.** (9 marks)
 - b) Give a **detailed** but **simple** example in both cases to illustrate the usage. (6 marks)
2. a) What is a **Superglobal** variable? Give **four (4)** examples. (5 marks)
 - b) What is a **Static** variable? Give a **detailed** example to illustrate the usage of a static variable.
3. a) List the **components** of a typical "**N-Tier**" Architecture? (3 marks)
 - b) What is the **significance** of "Tiers" in N-tier architectures? (4 marks)
 - c) Describe **succinctly** the **architecture principles** of a typical three-tier architecture (Use Diagrams where appropriate). (8 marks)
4. a) Outline **four (4)** differences between constants and variables in php. (6 marks)
 - b) Briefly outline **three (3)** features of each of the layers in three-tier architecture. (9 marks)