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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/201 ACADEMIC YEAR ONE**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF SCHOOL OF PURE AND APPLIED SCIENCES**

**DIPLOMA IN INFORMATION TECHNOLOGY**

**COURSE CODE: DIT 007**

**COURSE TITLE: INTERNET DESIGN**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 17/08/2021 TIME: 12.00-2.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FOUR (4) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining THREE (3) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of FOUR (4) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. What is HTML? (1 Mark)
2. Which is the correct HTML element for the smallest heading? (1 Mark)
3. Write the correct HTML code for inserting an image to a web page. (2 Marks)
4. Name Three ways to add CSS code to HTML page (3 Marks)
5. e) what does CSS stand for? 1 mark
6. i) How do you call a function named "myFunction"? 2 marks

ii) How do you declare a JavaScript variable? 2 marks

1. Write a simple HTML code to list four items in order. (5 marks)
2. Write a JavaScript code that adds two integers and displays their sum. 5 marks.
3. Write syntax for PHP if else statement 3 marks
4. Distinguish between web server and web protocol. 2 marks
5. Write a CSS code to change background colour. 3 marks

**QUESTION TWO**

1. write a JavaScript code to validate a simple form. 10 marks
2. Identify at least SIX errors in this code snippet. 8 marks

<!doctype html>

<html>

<?php

$msg = '';

if (isset($\_POST['login']) && !empty($\_POST['username'])

&& !empty($\_POST['password'])) {

if ($\_POST['username'] == 'guc' &&

$\_POST['password'] == '1234') {

$\_SESSION['valid'] = true;

$\_SESSION['timeout'] = time();

$\_SESSION['username'] = 'guc';

echo 'You have entered valid use name and password';

} {

$msg = 'Wrong username or password'

}

}

?>

</div> <!-- /container -->

<div class = "container">

<form class = "form-signin" role = "form"

action = "<?php echo htmlspecialchars($\_SERVER['PHP\_SELF']);

?>" method = "post">

<h4 class = "form-signin-heading"><?php echo $msg; ?>

<input type = "text" class = "form-control"

name = "username" placeholder = "username = tutorialspoint"

required autofocus></br>

<input type = "password" class = "form-control"

name = "password" placeholder = "password = 1234" required>

<button class = "btn btn-lg btn-primary btn-block" type = "submit"

name = "login">Login</button>

<form>

Click here to clean <a = "logout.php" tite = "Logout">

</div>

</body>

</html>

1. Name two current trends in web design 2 marks

**QUESTION THREE**

1. Write HTML code to register students. It should contain First Name, Last Name, Email, Password, Gender, program and a button to submit the data. 10 marks.
2. With JavaScript and PHP in mind explain the differences between server scripts and client scripts 6 marks
3. Describe any FOUR advantages of JavaScript. 4 marks

**QUESTION FOUR**

1. With the aid of a diagram explain the communication between a web server and client computer

8 marks

1. List FIVE web protocols and their use. 5 marks
2. Define TCP/IP and explain its functions. 4 marks
3. Differentiate HTTP and HTTPS. Which one would you advise a new web developer to use

3 marks