**GARISSA UNIVERSITY**

**DIPLOMA IT**

**DIT 007 INTERNET DESIGN**

**END OF SEMESTER EXAMINATIONS**

**INSTRUCTIONS: Answer Question ONE(COMPULSORY) and any other two questions**

**QUESTION ONE (30 Marks)**

a) What is HTML? (1 Mark)

b) Which is the correct HTML element for the smallest heading? (1 Mark)

c) Write the correct HTML code for inserting an image to a web page. (2 Marks)

d) Name Three ways to add CSS code to HTML page (3 Marks)

e) what does CSS stand for? 1 mark

f) i) How do you call a function named "myFunction"? 2 marks

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

g) Write a simple HTML code to list four items in order. (5 marks)

h) Write a JavaScript code that adds two integers and displays their sum. 5 marks.

i) Write syntax for PHP if else statement 3 marks

j) Distinguish between web server and web protocol. 2 marks

k) Write a CSS code to change background colour. 3 marks

**QUESTION TWO**

a) write a javascript code to validate a simple form. 10 marks

 b) 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>

g) Name two current trends in web design 2 mark

**QUESTION THREE**

a) 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.

 b) With Javascript and PHP in mind explain the differences between server scripts and client scripts 6 marks

c) Describe any FOUR advantages of JavaScript. 4 marks

**QUESTION FOUR**

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

 8 marks

b) List FIVE web protocols and their use. 5 marks

c) Define TCP/IP and explain its functions. 4 marks

d) Differentiate HTTP and HTTPS. Which one would you advise a new web developer to use

3 marks