



## GARISSA UNIVERSITY

### UNIVERSITY EXAMINATION **2017/2018** ACADEMIC YEAR **ONE** **SECOND** SEMESTER EXAMINATION

SCHOOL OF INFORMATION SCIENCES

FOR THE DIPLOMA INFORMATION TECHNOLOGY

COURSE CODE: DIT 107

COURSE TITLE: INTERNET DESIGN

EXAMINATION DURATION: 3 HOURS

**DATE: 09/04/18**

**TIME: 09.00-12.00 PM**

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#### INSTRUCTION TO CANDIDATES

- The examination has **SIX (6)** questions
- Question **ONE (1)** is **COMPULSORY**
- Choose any other **THREE (3)** questions from the remaining **FIVE (5)** 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)

- (a) What is HTML [1 mark]
- (b) Which is the correct HTML element for the largest heading? [1 mark]
- (c) Write the correct HTML code for adding a background color to a web page. [2 marks]
- (d) Differentiate between HTML elements and tags [2 marks]
- (e) Write a HTML program to register workers containing three names, gender, job title and register button. [6 marks]
- (f) What does CSS stand for? [1 mark]
- (g) i) How do you call a function named "validate"? [2 marks]  
ii) How do you declare a JavaScript variable? [2 marks]
- (h) Draw a flow chart for do while in JavaScript. [5 marks]
- (i) Write syntax for JavaScript if else statement [3 marks]

### QUESTION TWO

- (a) Write a JavaScript code to validate a simple form. [10 marks]
- (b) Identify at least FIVE errors in this code snippet. [5 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"
```

### QUESTION THREE

- (a) Write HTML program to register students. It should contain First Name, Last Name, Email, Password, Gender, program and a button to submit the data. **[11 marks]**
- (b) Outline FOUR design issues a web programmer faces when developing a website. **[4 marks]**



#### QUESTION FOUR

- (a) With an aid of a diagram, illustrate how a server process requests from client's computer. **[8 marks]**
- (b) List any SEVEN web protocols and their use. **[7 marks]**

#### QUESTION FIVE

- (a) What is the difference between a HTML attribute and tags **[4 marks]**
- (b) Distinguish between web server and web protocol. **[2 marks]**
- (c) Explain FOUR advantages of JavaScript. **[4 marks]**
- (d) How do you insert an image and a link to a HTML document **[5 marks]**

#### QUESTION SIX

- (a) Differentiate between server scripts and client scripts **[3 marks]**
- (b) With JavaScript in mind, Explain THREE advantages and disadvantages of Client scripts **[12 marks]**

