

COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE CIS403 WEB BASED APPLICATION DEVELOPMENT END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2018

LECTURER: MR MAGWAGWA

DURATION:3 HRS

INSTRUCTIONS

You are required to answer questions as instructed in each section

Start each question on a new page in your answer booklet

Answer all questions in Section A

Answer any Three (3) questions from Section B

Credit will be awarded for logical, systematic and neat presentations

SECTION A

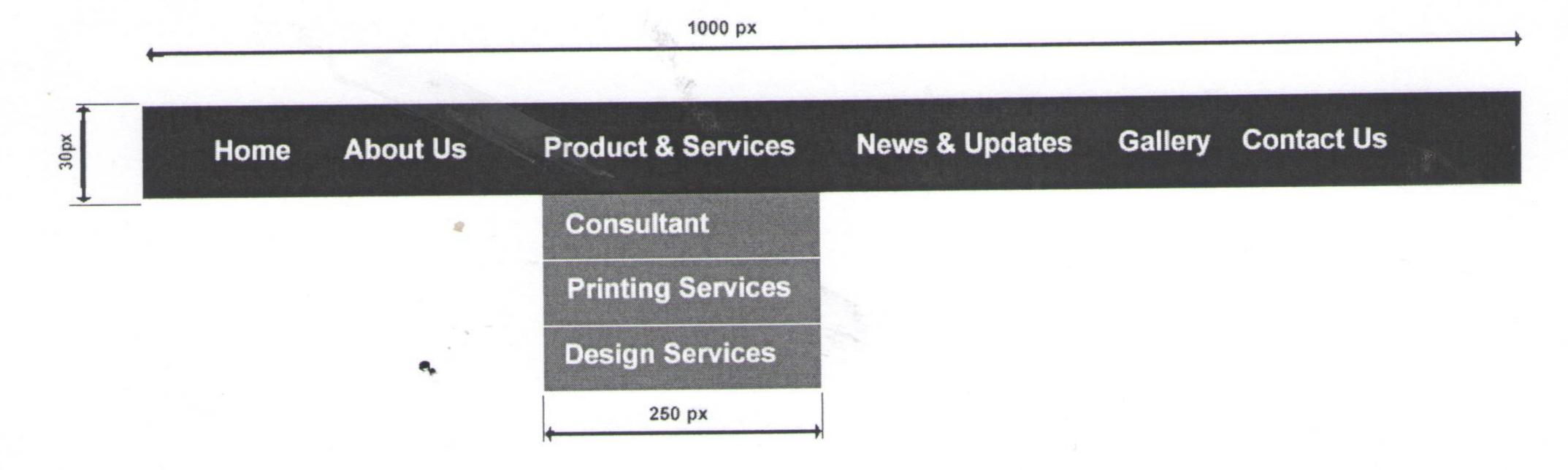
Delta Printers is a commercial company in Zimbabwe that provides Consultancy, Printing and Design Services. Delta Printers do not have IT experts and outsource all of their IT services. They have approach you, a professional Web Developer requesting you to assist them in registering two domains and the development of their website.

Question 1

- a) Recommend two domain names taking into consideration the two types of TLDs [4 Marks]
- b) Which type of website will you develop for them? Justify your choice by giving the advantage over the other in their case [6 Marks]
- c) With your vast knowledge of Domain Name System. Delta Printers would want to redirect the one domain to the other domain. Differentiate between A Record and Cname Methods (giving appropriate examples)

 [5 Marks]

Question 2



The above image is the proposed menu for the Delta Printer Website. Produce the HTML and CSS code for the menu. Use a separate CSS to the index file and the name of the CSS is style.css. Use the width and height dimensions indicated at the age of the image.

Additional information:

Background color for top level - #000000 Background color for dropdown level - #993300 Padding on menu links - 15px

Menu font size is 15px

Home - index.html; About - about.html; Product & Services - services.html; News & Update - news.html; Gallery- gallery.html; Contact Us - contact.html

[15 Marks]

Question 3

Explain the following line of Code

```
$sql="INSERT INTO InventoryItem (name, description, quantity) VALUES
                                                                               [2 Marks]
   ('$ POST[name]','$_POST[description]','$_POST[quantity]')";
  @media screen and (max-width: 900px) {
   body{
   color: #DDD;
   text-transformation: uppercase;
   font-size: 14px;}
                                                                               [2 Marks]
                                                                                [2 Marks]
   <form method="POST" action="file_name.php">
    <?php
d)
   $servername = "localhost";
   $username = "root";
   $password = "";
   $dbname = "myBusiness";
   $conn = new mysqli($servername, $username, $password, $dbname);
   if ($conn->connect_error) {
     die("Connection failed: " . $conn->connect_error);
                                                                                [4 Marks]
```

SECTION B

Question 4

a)	Explain the concept of a website REQUEST and RESPONSE	[5 Marks]
b)	Describe types of multimedia files used in HTML	[5 Marks]
c)	Differentiate between HTML and HTML5	[10 Marks]

Question 5

a)	Discuss any Four (4) factors that affect the website design process	[4 Marks]
b)	Explain the CMYK, RGB and HSB color systems and show where they are most	applicable
		[9 Marks]
c)	Differentiate between lossy and lossless images, give examples for each	[7 Marks]

Question 6

a)	What are meta tags? What are they used for?	[5 Marks]
b)	Identify and Explain the 3 components of a search engines	[9 Marks]
c)	Differentiate between White hat and Black hat search engine techniques	[6 Marks]

Question 7

a)	Identify and Explain any Five(5) Web hosting security threats	[10 Marks]
b)	Identify and Explain any Five(5) Web hosting security measures considered	[10 Marks]