



**COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE**

**NCSC205 INTERMEDIATE WEB APPLICATION DEVELOPMENT**

**END OF FIRST SEMESTER EXAMINATIONS**

**AUGUST/DECEMBER 2018**

**LECTURER: MR MAGWAGWA**

**DURATION: 3 HRS**

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### ***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**

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Answer any TWO (2) questions from **Section B**

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Credit will be awarded for logical, systematic and neat presentations

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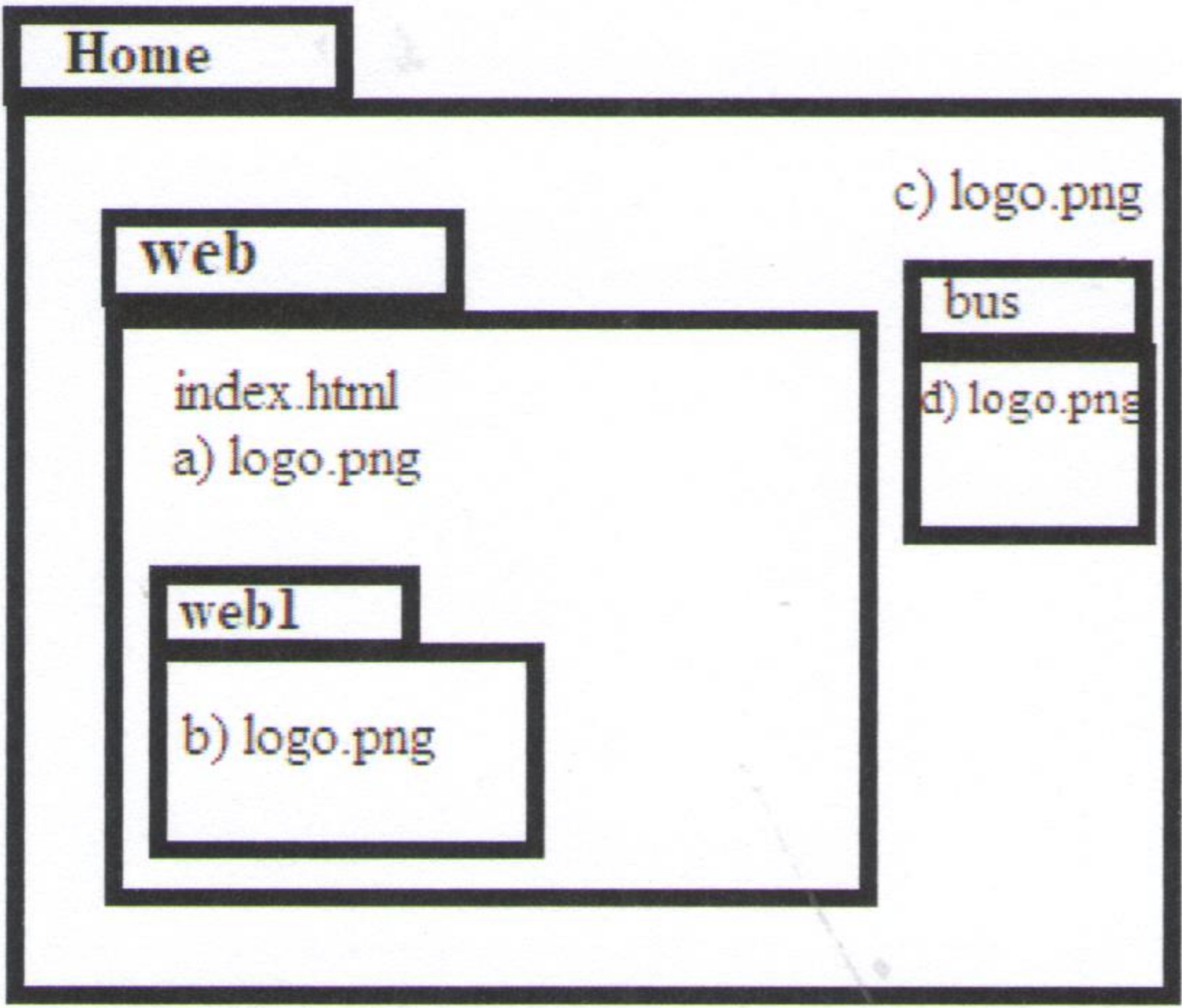
SECTION A

Question 1

- a) Differentiate between redirecting using A record and Cname?  
Identify which you would opt for and when will you use it?

[6 Marks]
- b) Discuss the three types of stylesheets and their priorities

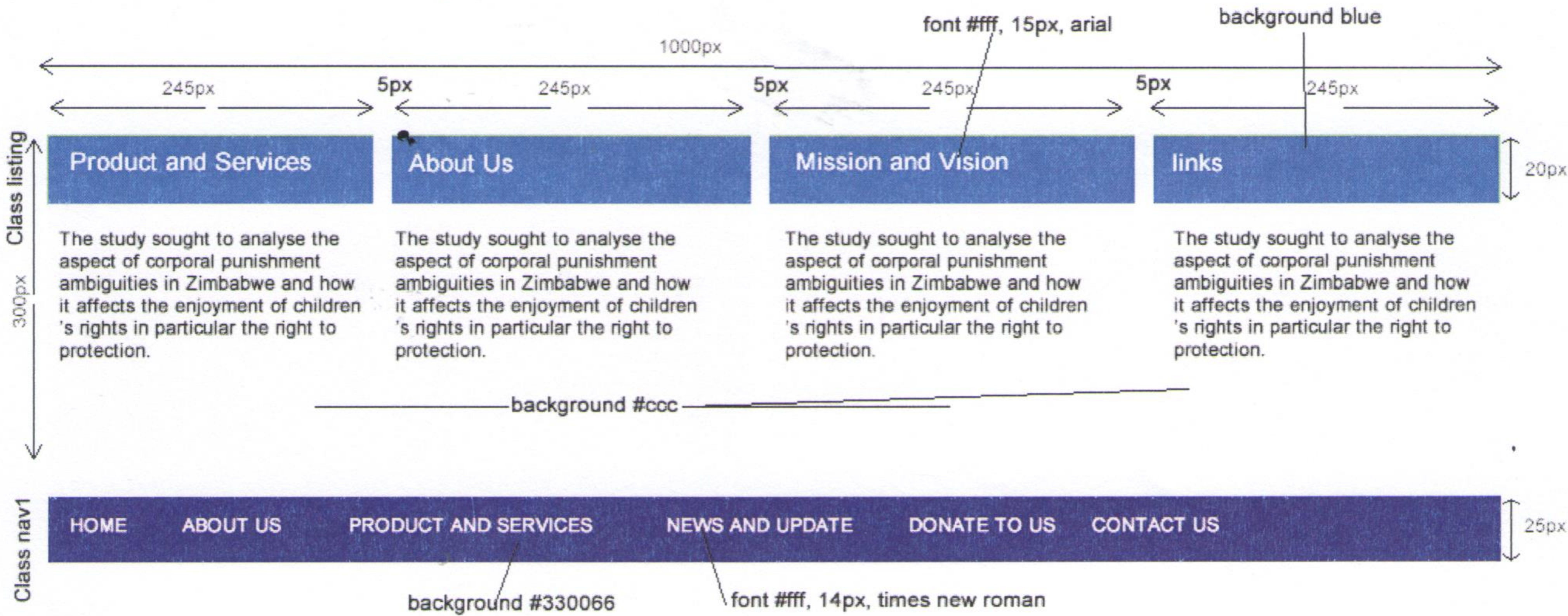
[9 Marks]
- c) Given the image below, indicate the image tag referencing logo.png on a, b, c and d.  
The file accessing the logo.png is index.html



[5 Marks]

Question 2

Produce the HTML and CSS code for the website extract. Use a separate CSS to the index file and the name of the CSS is mystyle.css. Use the width and height dimensions indicated at the edge of the image.





### Additional Information

**Home-** index.html **About Us** – about.html **Product and Services** – product.html **Donate to us** – donate.html **Contact us** – contact.html

Body text font #000, 12px Tahoma

Menu padding top and bottom 5px

Padding left and right 15px

**[20 Marks]**

### Question 3

- a) A database called Audb has a tables pdetails(id, fname, lname, age) and pcourse(id, name, chrs).

Username of db is root and password is root. Write MySQL statements to:

- i) Insert- a record in pdetails
- ii) Select – all records in pcourse with condition of chrs being 3
- iii) Delete – a record in pdetails with condition of id being 2

**[15 Marks]**

- b) Explain the code below and what does it do

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myBusiness";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```

**[5 Marks]**



## SECTION B

### Question 4

- a) Differentiate between dynamic and static website? Stipulate when each type of website is appropriate [8 Marks]
- b) What is a domain? Discuss any Four(4) features associated with a domain [6 Marks]
- c) Mr Magwagwa is trying to access a <http://www.herald.co.zw> from his office computer. Please explain the concept associated with request and response. [6 Marks]

### Question 5

- a) Discuss any Four(4) factors that affect the design process [8 Marks]
- b) What are vector graphics? Discuss the difference between vector graphics and raster graphics [6 Marks]
- c) Discuss any Two(2) drawing system that exists [6 Marks]

### Question 6

- a) What is a XML Sitemap? Why is it important for Search Engine Optimization? [6 Marks]
- b) Define and Explain the terms **page ranking**, **indexing** and **crawling** in terms of Search Engine Optimization [9 Marks]
- c) Compare and contrast Search Engine Optimization and Search Engine Marketing [5 Marks]