

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

CHUKA & EMBU

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE
IN COMPUTER SCIENCE

COSC 00104: WEB PROGRAMMING AND ADMINISTRATION

STREAMS: CERT. COMP SCI Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 08/4/2019

11.30 A.M. – 1.30 P.M

INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, No reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.
- Marks are awarded for clear and concise answers.

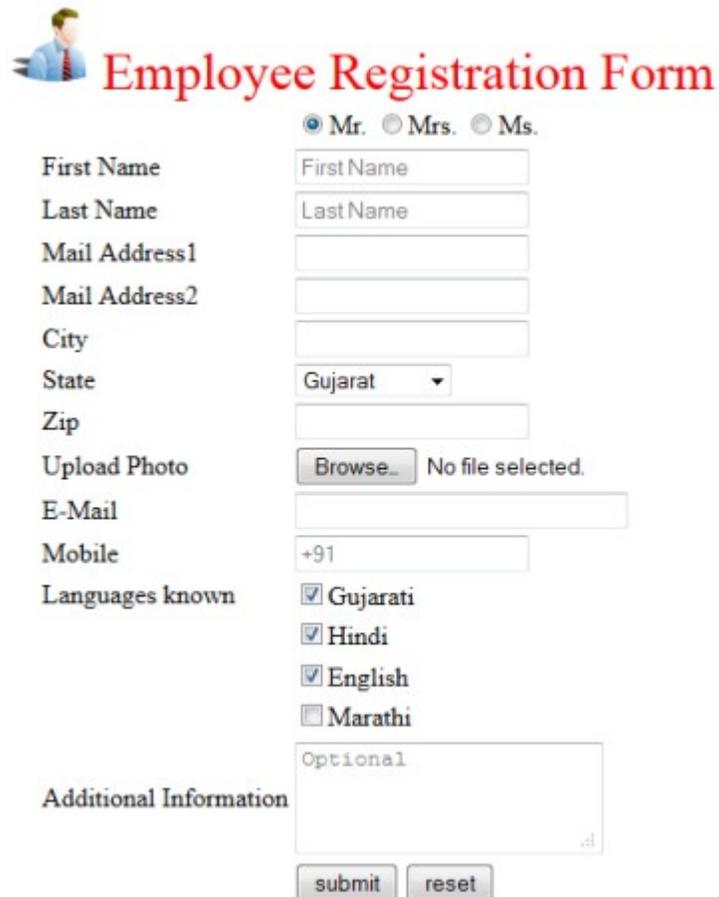
QUESTION ONE (30 Marks)

- Explain each of the following terminologies: (8 Marks)
 - XAMPP
 - Phpmyadmin
 - CSS
 - Hyperlink
- List the THREE rules of naming HTML attributes (3 Marks)
- Write a PHP script named **today.php** that outputs the current date of a web server (4 Marks)
- Explain the role of `<!doctype html>` in an HTML document (3 Marks)
- State and explain three benefits of using PHP and MySQL together in a web site or a web application. (6 Marks)
- Define an associative array (2 Marks)
 - Write PHP code that shows an example of an associative array. (4 Marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

QUESTION TWO (20 MARKS)

- a. Briefly explain what happens when the address www.chuka.ac.ke is typed on a browser. (8 Marks)
- b. Write HTML code that can be used to show the following table. (12 Marks)



The image shows a web form titled "Employee Registration Form" with a small icon of a person in a blue shirt. The form includes the following fields and controls:

- Gender: Radio buttons for Mr. (selected), Mrs., and Ms.
- First Name: Text input field with placeholder "First Name".
- Last Name: Text input field with placeholder "Last Name".
- Mail Address1: Text input field.
- Mail Address2: Text input field.
- City: Text input field.
- State: Dropdown menu with "Gujarat" selected.
- Zip: Text input field.
- Upload Photo: "Browse..." button and "No file selected." text.
- E-Mail: Text input field.
- Mobile: Text input field with "+91" as a prefix.
- Languages known: Checkboxes for Gujarati (checked), Hindi (checked), English (checked), and Marathi (unchecked).
- Additional Information: Text area with placeholder "Optional".
- Buttons: "submit" and "reset".

QUESTION THREE (20 MARKS)

- a. In order to use a style sheet with your HTML5 document, you need to tell your document where to locate the style definitions. State and explain three ways to define styles (6 Marks)

- b. What would be the output of the following JavaScript code on a browser? (4 Marks)

```
<script type="text/JavaScript">
i = 1
while (i < 11) {
document.write(i + " x 3 = " + (i * 3) + "<br />");
i ++
}
</script>
```

- c. Name 4 HTML5 elements that supports media content. (4 Marks)

- c. Explain the differences between delete, drop and truncate? (6 Marks)

QUESTION FOUR (20 MARKS)

- a.) Mark up the following sentence with the relevant presentational elements. (4 Marks)
- b.) While stating what the acronyms stand for, explain the difference between the following image formats: (6 Marks)
- i. JPEG
 - ii. PNG
 - iii. GIF
- c.) Briefly explain the difference between checkboxes and radio buttons when creating HTML forms (4 Marks)

d.) Write HTML code that would render the web page shown below on a browser. (6 Marks)



The image shows a browser window titled "@ Login form". Inside the window, there is a form titled "Login details". The form contains three input fields: "User name:", "Password:", and "Confirm password:". A "Log in" button is positioned at the bottom right of the form.

QUESTION FIVE (20 MARKS)

- a.)** Using HTML code examples, describe how you can use nested framesets to lay out a web page (10 Marks)

 - b.)** Explain what a site map is in web design and state its importance (4 Marks)

 - c.)** State and explain the advantages of using Dreamweaver in developing websites (6 Marks)
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