



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCES
SEPTEMBER 2020_1 EXAMINATION

COURSE CODE: CIT 484

COURSE TITLE: WEBSITE DESIGN AND PROGRAMMING

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

1(a) Distinguish between the Internet and the Web. Explaining whether or not it is possible for one of them to exist without the other. **(3 Marks)**

(b) (i) State the role of a HTML tag. **(2 Marks)**

(ii) When you use a heading tag in a document, outline what the Web browser assumes?
(2 Marks)

(c) As a student of CIT484, a web design class, you have been asked to create a login page as shown in figure 1. The form should be processed by `http://localhost/webpages/test.js` and it should be sent via the Get method.

The image shows a simple login form. It consists of a rectangular container with a thin black border. Inside the container, there are two text labels, 'Username' and 'Password', positioned to the left of two horizontal input fields. Below the input fields, there are two buttons: 'Login' on the left and 'Clear' on the right. The buttons have a light gray background and a thin black border.

Figure 1: Login form

- i. Write the HTML codes that creates the form as shown in figure 1 **(8 marks)**
- ii. Write a JavaScript code to validate username and password for the login form in 1(c). If username and password are correct then show message “welcome to the world of web design” If either username or password is not correct then show message “Invalid Username or password” **(6 marks)**
- iii. Write JavaScript code to disallow user from submitting empty value(s) using the form in Figure 1 **(4 marks)**

2 (a) Create HTML document that has two frames in one row. The left frame must have at least two links to other documents which are displayed in the right frame. The links must be the names of lecture rooms in School of Science and the documents describe the location of the lecture rooms. **(9 marks)**

2b. Differentiate between the following concepts;

- i. HTML and XML
 - ii. Physical and logical tags
- (3 marks each. 3 x 2 = 6 marks)**

3(a) There are times when a list box makes more sense than a text box, or when it's easier to use a series of radio buttons as opposed to a series of check boxes. Discuss the following form field type and what circumstances each form field type is best suited for.

(i)List box (ii) Check box (iii) Radio button (iv)Text Boxes (v)TextArea **(10 marks)**

(b) Which of the following object names are valid in JavaScript? For each one that is invalid, explain why.

i. lastname **ii.** Company-name **iii.** 1stLineAddress **iv.** Zip code **v.** today's date **(5 marks)**

4(a) Write short notes on the following form's attributes

(i) Fieldset (ii). Legend (iii). Maxlength (iv). Label (V). Action **(5 marks)**

(b)Write the HTML that creates the form below **(5 marks)**

HTML FORM



The image shows a screenshot of a web browser displaying an HTML form. The form is enclosed in a rectangular border. At the top left of the form, the text "HTML FORM" is displayed in bold. Below this, there is a text input field containing the text "Hello from me". Below the input field is a button with the text "DisplayMessage".

(c) Write a JavaScript codes that makes the text “Hello from me” to be display as shown in the form when you click on the “DisplayMessage” button **(5 marks)**

5(a) (i) Write HTML code that will add mp3 music to a webpage, the song should play three times and then stop **(2 marks)**

(ii) Write a general HTML code that make a picture called “noun” as background of a webpage. **(2 marks)**

(iii) Write HTML code to allow someone send mail to you by just clicking on the text. **(2 marks)**

(iv) Write HTML code that would make the text “Welcome to my world!” scroll from bottom to top (**2 marks**).

(v) Write HTML code that would make all the link in the webpage red instead of the default colour blue (**2 marks**)

(b) Write a JavaScript program to print the system current time in HH:MM:SS format as shown:
The current time is **12:45:25** (**5 marks**)