NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCES
2021_2 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.
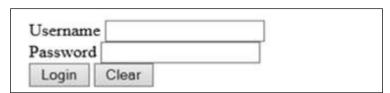

Figure 1: Login form

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. (**6 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 JavsScript? 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 note 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**)

(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) Writes HTML code that will add mp3 music to a webpage, the song should playing for three times and then stop (**2 marks**)
(ii) Writes a general HTML code that make a picture called "noun" as background of a webpage. (**2 marks**)

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

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

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

(b) Writes 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**)