NATIONAL OPEN UNIVERSITY OF NIGERIA,

University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja

FACULTY OF SCIENCES

JULY 2017 EXAMINATION

Course code: CIT322
Course Title: Introduction To Internet Programming
Time: 2 Hours
Instruction: Answer any Four (4) questions.

1.
   a. Briefly explain the 2 major services available on the internet. State their definitions and explain their history/origin, architecture and uses. (13 points).
   b. Briefly explain the following protocols :
      i. TCP (1.5 points)
      ii. FTP   (1.5 points)
      iii. HTTP (1.5 points)

2.
   a. With the aid of a diagram and suitable examples, explain the client/server model. As part of the explanation, briefly discuss distributed processing. (9.5 points)
   b. With the aid of a table, state the differences between a web client and a web server. (8 points).

3.
   a. Write the complete HTML code for a web page titled "National Open University". Attach a css file called **noun.css** to the web page with the following text displayed in the body of the web page:

   "The National Open University was established in 2007 to promote open and distance learning in Nigeria". (11 points)

   b. List 3 HTML tags that require no closing/ending tag (4.5 points)
   c. List 2 web browsers (2 point)

4.
   a. Write a piece of Javascript code that displays the message: "We wish you a merry Christmas!" on a web page. The code should contain one single-line comment of your choice **AND** one multiple-line comment of your choice. (7.5 points)

b. Write a piece of Javascript code to calculate the average of the all numbers from 0 to 100 inclusive (ie. 0, 1,2,...,100). The code should display the message: "The average is ..." at the end of the calculation. (10 points).

5.

a. Write a piece of Javascript code to perform the following operations:
   i. Display an alert box with the message: "This is an easy exam". (5 points)
   ii. Display a prompt box with the message: "Please enter your phone number". (5 points)
b. Define cloud computing and state how it differs from the traditional client/server model (4 points)

6.

a. List 4 advantages of using cascading style sheets in web development. (12 points)
b. List the 3 different flavors of cascading style sheets (5.5 points).