## NATIONAL OPEN UNIVERSITY OF NIGERIA

**University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja**
**Department of Computer Science**
**Faculty of Science**
**2020_1 Examination**

**Course: CIT 853 – Internet Concepts and Web Design**
**Credit Unit:** 2
**Time Allowed:** 2 Hours
**Instructions:** Answer Question 1 and three (3) other questions

Q1      a. What is the distinction between the World Wide Web (WWW) and the Internet?
(4 marks)
b. Discuss the following Internet concepts:
(i) Hypertext Transfer Protocol (HTTP)                          (3 marks)
(ii) Hyperlinks                                                  (3 marks)
(iii) Uniform Resource Locator (URL)                            (3 marks)
c. Describe the DoD reference model                             (6 marks)
d. Discuss the Session and Presentation layers of the OSI Reference Models (6 marks)

Q2      a. Explain the concepts of 3-tier and N-tier architecture        (4 marks)
b. Write short notes on the following terms
(i)      Web pages                                              (3 marks)
(ii)     Common Gateway Interface (CGI)                         (3 marks)
(iii)    Mark-up Language                                       (3 marks
c. Mention two types of graphic file formats.                  (2 marks)

Q3      a. What are the main differences between thin and fat clients?   (6 marks)
b. Explain the concept of layered architecture                 (3 marks)
c. List six network interconnecting devices                       (6 marks)

Q4.     a. List five (5) file extensions used in Web Design            (5 marks)
b. Describe the use of the following HTML formatting elements
(i) <ol>                                                       (2 marks)
(ii) <em>                                                      (2 marks)
(iii) <strong>                                                 (2 marks)
(iv) <h1>                                                      (2 marks)
(v) <a>                                                        (2 marks)

Q5.
a.  As a web developer in an new publishing company you are required to use HTML
code,  to design a simple web page that has the following:
(i)    CSS code at the head of the document that gives the page a blue
background color                                       (3 marks)
(ii)   Displays the page the title "XYZ Publishing Company"        (3 marks)
(iii)  Create a hyperlink to an e- mail with title "send mail to publisher".  (3 marks)
b.  Write out the HTML format structure of a simple 3X3 (i.e. 3 rows and 3 columns)
table.                                                         (6 marks)