

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

 **Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCES**

**APRIL, 2019 EXAMINATIONS**

***Course Code:*** CIT322

***Course Title:*** Introduction to Internet Programming

***Credit Units:*** 3 units

***Time Allowed:*** 2½ Hours

***Instruction:*** Answer Question 1 and any other Four (4) questions

**1a**) Outline the major steps involved in utilising the Common Gateway Interface. ***(8 marks)***

1b) In a tabular form, distinguish between web client and web server. ***(8 marks)***

1c) Give an extensive explanation of the term “Cloud Computing”. ***(6 marks)***

2a) Discuss the following terms:

i) “**Intranet” *(3 marks)***

**ii) “Extranet” *(3 marks)***

2b) List four examples of broadband connections that can be used to access the Internet

 ***(2 marks)***

**2c**) Draw a well-labelled diagram of a web application. ***(4 marks)***

3a) The diagram that follows shows the interconnectivity of networked-based devices and

 operations, identify and name the devices labelled as of A, B, C, D ***(2 marks)***

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3b) Discuss extensively the terms:

i) “WWW” ***(5marks)***

ii) “Email” ***(5 marks)***

4a) Briefly describe the following types of computer networks:

 (i) LAN ***(1½ marks)***

(ii) WAN ***(1½ marks)***

(iii) MAN ***(1½ marks)***

4b) Define the purpose Cascading style sheets ***(3 marks)***

4c) List the three types of Cascading Style Sheets ***(1½ marks)***

4d) Explain the concept of Internet Protocol with respect to packets and headers transmission

 ***(3 marks)***

5a) In the following network model, identify the components labelled as A, B, C, D, E (5 marks)

B

A

C

D

E

5b) Define the use of Hypertext Reference (href) ***(2 marks)***

5c) Explain the following video media types of files: ***(4 marks)***

1. .swf files
2. .wmv files
3. .mov files
4. .mpeg files

**5d**) List any two (2) types of audio file format. ***(1 mark)***

6a) Enumerate eight (8) types of servers ***(4 marks)***

6b) List in the correct order , from layer 1 to layer 7, the layers of the Open System Interconnect model ***(4 marks)***

6c) State the meaning of the following HTML tags ***(4 marks)***

(i) <A>

(ii) <BR>

(iii) <HN>

(iv) <OL>