NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
OCTOBER, 2019 EXAMINATIONS

COURSE CODE: CIT 311
COURSE TITLE: COMPUTER NETWORKS
CREDIT: 3 UNITS
TIME ALLOWED: 2½ HOURS
INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER FOUR (4) OTHER
                QUESTIONS

1a. (i) Evaluate and Classify Computer Networks   **(8 marks)**
1b. (i) Determine the characteristics of broadband coaxial cable   **(5marks)**
    (ii) Analyse Data Link Layer Link Control)   **(3marks)**
1c. (i) Write on the Services Provided by Data Link Layer   **(3marks)**
1c. (ii) Analyse the basic designed goals of network layer services   **(3marks)**

2. Evaluate the types of Service/Quality of Service (QoS)   **(6 *marks)***
2b. Write out the PseudoCode for Source Routing Bridges   **(6 marks)**

3a.   Analyse the concept of file transfer protocol?   **[6 marks]**
3b.   Distinguish between adaptive and non-adaptive routing   **[4 marks]**
3c.   Determine three advantages of transparent bridges   **[2 marks]**

4a. Describe three (3) commonest problems that can occur with RIP (**3 marks)**
4b. Give any 6 Characteristics of Electronic Mail (E-MAIL)   **(6 marks)**
4c. Explain what you understand by the term RIP used in computer networks **(3mark)**

5a.   Distinguish between bridges and routers   (**6 marks)**
5b.   Discuss three basic operations of an ATM switch   **[3 marks]**
5c.   Analyse any three (3) tasks which can be performed by a modem   **[3marks]**

6a. Differentiate between ISO reference model and TCP reference model (**6 marks)**
6b. Describe the concept of user data protocol   **[6marks]**