NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
OCTOBER 2019 EXAMINATION

COURSE CODE: DAM361
COURSE TITLE: BUSINESS COMMUNICATION AND NETWORKS
COURSE CREDIT: 2 UNITS
TIME ALLOWED: 2 HOURS
INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS

1a) (i)   Explain the basic components of a telecommunication system   *(3 marks)*
      (ii)   Interpret the functions of a MODEM in data transmission   *(2 marks)*
 (b)   (i)   Identify four (4) standard organisations for telecommunications   *(4 marks)*
      (ii)   How can a person become a member of a company?   *(3 marks)*
      (iii)   Provide four (4) rights of a member included in the Company's Act **(4 marks)**
 (c)   What name is given to the data packets produce at the following layers? **(2 marks)**
 (d)   Analyse any four (4) functions of the transport layer of the OSI model   **(4 marks)**
 (e)   Determine the main components of a marketing plan?   **(3 marks)**

2(a)   Provide five (5) differences between **CSMA/CA** and **CSMA/CD**   **(6 marks)**
2(b)   Differentiate between MAC and IP addresses   **(5 marks)**
2c.   Write down four (4) categories of network standards   **(4 marks)**

3a)   Compare Switches to Routers in terms of their functionality in a network **(6 marks)**
 b)   Write short notes on these WAN protocols: **Frame Relay** and **ISDN**   **(4 marks)**
 c)   Analyse five (5) advantages of optical fibre over copper cables   **(5 marks)**

4a) Determine four (4) design issues that must be considered when implementing network model
                                                                                  (4 marks)
 b) Differentiate between simplex and half duplex modes of data transmission   **(4 marks)**
 c)(i) Analyse four (4) advantages of the layered network architecture   **(4 marks)**
   (ii) Itemise three (3) analyses that measure short-term marketing performance **(3 marks)**

5a.(i) Enumerate the layers of the TCP/IP network model   **(4 marks)**
  (ii) Provide three (3) uses of coaxial cable   **(3 marks)**
 b)   Deduce what these IEEE standards specify
      (i) IEEE802.3   (ii) IEE802.10   (iii) IEEE802.11   **(6 marks)**
 c)   Identify four (4) protocols used at the application layer of the OSI model **(2 marks)**