COURSE CODE: CIT305
COURSE TITLE: NETWORKING AND COMMUNICATION TECHNOLOGY
COURSE CREDIT: 3 UNITS
TIME ALLOWED: 2½ HOURS
INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS

QUESTIONS

1. Assuming you were invited in a workshop on Networking and Communication Technology to enlighten the participants on how the Digital Subscriber Line (DSL)works,

1a. Briefly explain DSL **(4 Marks)**
1b. Enumerate four (4) features of the DSL. **(4 Marks)**
1c. Mention and briefly explain two (2) advantages of the DSL. **(4 Marks)**
1d. State any two (2) disadvantages of the DSL. **(2 Marks)**
1e. Explain the concept of 'Multiplexers as it relates to electronics' **(2 marks)**
1f. A common trend in Networking and Communication Technology is the Integrated Services Digital Network (ISDN). State and explain briefly two (2) major types of access provided in the ISDN. **(6 marks)**
1g The IEEE 802 standard is typical in Networking and Communication Technology. State the implication of this standard. (3 marks

[Total = 25 marks]

2a. Write short notes on the following common analog modulation techniques:
i. Amplitude Modulation (AM) *(2 marks)*
ii. Double-Sideband Modulation (DSB) *(2 marks)*
iii. Single-sideband modulation (SSB, or SSB-AM) *(2 marks)*

2b. Explain briefly the following Digital Modulation Techniques:
i. Amplitude-Shift Keying (ASK)
ii. Frequency-Shift Keying (FSK)
iii. Phase-Shift Keying (PSK)

(6 marks)

2c Write short notes on the following:

i. GSM and GPRS *(1.5 marks)*
ii. Power Over Ethernet (POE) *(1.5 marks)*

3a. How would insert rows and columns in MS-Excel document?   5 marks
3b. How do you insert a new worksheet in MS-Excel document?   5 marks
3c. Describe how to delete worksheet in a MS-Excel document.   5 marks
3d. How would you hide or unhide commands in MS-Excel document? 5 marks

4. Write short notes on the following concepts:
    (i)   Wildcards
    (ii)   Database
    (iii)   Database Management System (DBMS)
    (iv)   Filtering a database
    (v)   Printing
    (vi)   Field, Field name and Database range
    (vii)   Record
    (viii) Computer field
    (ix)   Functions
    (x)   Auto sum Command   20 marks