COURSE CODE: CIT423
COURSE TITLE: COMPUTER NETWORKS AND COMMUNICATION
COURSE CREDIT: 2 UNITS
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION (1) AND ANY OTHER TWO (2) QUESTIONS

QUESTIONS

1a.	List seven (7) benefits of ATM network	**(7Marks)**
b.	Describe how the following ATM switch interfaces operate	**(5Marks)**
c.	Explain the functions of a Virtual Path Identifier in ATM network	**(5Marks)**
d.	What are the functions of Cell Loss Priorty in ATM cell header format	**(6 Marks)**
e.	List four (4) advantages of the small, fixed-sized cells of ATM network	**(4Marks)**
f.	List the three (3) kinds of interfaces ATM switches support	**(3marks)**

2a.	Differentiate between LANs and WANs	**(5marks)**
b.	Define network resource management	**(5marks)**
c.	List the network traffic control mechanisms	**(5marks)**
d.	What do you understand by stop and wait?	**(5marks)**

3a.	Briefly explain what a modem is all about.	**(5marks)**
b.	What are the key components of a computer network?	**(5marks)**
c.	When a network is said to experience congestion	**(5Marks)**
d.	Outline the classes of service defined for ATM network	**(5Marks)**

4ai.	List the classification of transmission media	**(2marks)**
4ai.	What is a computer network?	**(3marks)**
b.	What is TCP/IP?	**(5marks)**
c.	How do the OSI and TCP/IP models differ?	**(5marks)**
d.	What is the OSI model?	**(5marks)**

5a. When is a system administration? **(3Marks)**
b. Explain the mode of transmission used when a mobile phone call is made between a student in class and the desk officer in the office **(5marks)**
c. What is network and system administration? **(5marks)**
d. What are the challenges of system administration? **(7marks)**