**NATIONAL OPEN UNIVERSITY OF NIGERIA**
**14-16 AHMADU BELLOW WAY, VICTORIA ISLAND, LAGOS**
**SCHOOL OF MANAGEMENT SCIENCES**
**MARCH/APRIL 2014 EXAMINATION**

**COURSE CODE: MBF844 COURSE UNITS: 2**
**COURSE TITLE: COMPUTER NETWORKS AND INTERNET**
**TIME ALLOWED: 2 HRS**

**Instructions: 1. Attempt question Number one (1) and any other two (2).**
**2. Question number 1 is compulsory and carries 30 marks, while the other questions carry equal marks each**
**3. Present all your points in coherent and orderly manner**

**Question 1:**

**a.** What are several business decisions that you will have to make as a manager that have both an ethical and IT dimension? Give several examples to illustrate your answer.
15marks

b. What would be examples of one positive and one negative effect of the use of e-business technologies in each of the ethical and societal dimensions? Explain several of your choices. 15 marks

**Question 2:**

a. What potential security problems do you see in the increasing use of intranets and extranets in business? What might be done to solve such problems? Give several examples.
10 marks

b. i. Describe white noise and how does it affect a signal.
5 Marks
ii. Briefly enumerate the error-prevention techniques to prevent occurrence of transmission error.

**Question 3:**

**a.** What is disaster recovery? How could it be implemented at your school or work?

10marks

b. i. List the two parts of an electronic mail
2marks
ii. what is the difference between analog and digital data
2marks

c. explain the difference between Centralized and Distributed routing
6marks

Question 4:

a. What are the four components of an interface?
   8 Marks
b. What are the features of asynchronous connections that help them maintain synchronization?
   5Marks
c. Describe how a synchronous connection keep the sender and receiver synchronized.

   7marks

Question 5:

a. State the major merit and demerit of flooding
   6marks
b. Briefly explain Broadcast Network
   10marks
c. Explain the concept of cut-through architecture and mention the disadvantage(s) of using this architecture to interconnect devices in network environment. 4marks