NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF APPLIED SCIENCES
COMPUTER SCIENCE DEPARTMENT
MAY EXAMINATIONS 2011

SUBJECT: **INTERNET AND WEB DESIGNING**
CODE: **SCS2204**

<u>**INSTRUCTION TO CANDIDATES**</u>
Answer any four questions. The paper contains five questions.

Time: 3 hours

QUESTION ONE

a. You have been contracted to connect ABC Company to the Internet. The company has two LANS in two different cities. Provide solutions to the following questions.
   i. Outline in detail the Hardware components required for the connection
       [5]
   ii. What software is needed for connection purposes?   [5]
   iii. Discuss the connection method you will adopt?   [5]
b. Briefly explain the process of IP Spoofing.   [10]

QUESTION TWO

a) Using a practical example, explain the process of Internet connection using a wireless method of connection   [15]
b) UDP is the best protocol for Voice over IP (VOIP) explain why and state another example that requires the use of UDP.   [10]

QUESTION THREE

Write the HTML code for doing the following operations:
   a) Linking your Home page to any website.   [5]
   b) Sending an e-mail.   [5]
   c) Inserting your photo picture in a page.   [5]
   d) Listing in an ascending order names of three members of your family.
       [5]

e) Tabulating your Advanced Level results.   [5]

QUESTION FOUR

Subnet the IP address 192.168.10.0 clearly showing the number of subnets, hosts per subnet, valid subnets, and broadcast address for each subnet and the valid hosts.   [25]

QUESTION FIVE

a) State and explain the four phases of a DHCP protocol.   [8]
b) Contrast any 2 web browsers of your choice.   [6]
c) Explain some of the benefits of sub netting.   [8]
d) Give an example of a web server.   [3]

END OF QUESTION PAPER