NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF APPLIED SCIENCE
COMPUTER SCIENCE DEPARTMENT
JUNE EXAMINATIONS 2004

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

INSTRUCTION TO CANDIDATES

Answer any five questions.

Time: 3 hours

QUESTION ONE

a)   Give brief descriptions of the following
      i)   Cyberspace
      ii)   Snail mail
      iii) Browser.   [6]

b)   Explain the seven layers of the ISO protocols.   [14]

QUESTION TWO

a)   Give brief descriptions of the following:
      i)   Telnet
      ii)   FTP
      iii) Gopher
      iv)   Bandwidth   [8]

b)   Compare and contrast Java and Java script indicating their use in web
      page development.   [6]

c)   Give basic specifications for an Internet server. You must describe briefly
      the services that can be offered by the server.   [6]

QUESTION THREE

a) Give brief descriptions of ten generic Internet domains.   [5]

   b) Give the possible URL offering ftp down loads for a file called
       Linux.zip in a directory called O.syst, which is a subdirectory of int.rsc,
       which is a subdirectory of pubs.

   The original serve is at Gomo University in the department of Computer
   Science (csc) in a server called Marula. Gomo University is in the
   education domain (edu) in the country domain of Ghana.

   Assume that there is a mirror server called JAMBO with the same file at
   the University of Nairobi (UNIROBI) department of Systems Engineering
   (systeng) and that Gomo University is unreachable.

   Give a brief explanation stating how you arrived at the URL. [At least 1½
   pages].   [15]

QUESTION FOUR

Write the HTML code to produce this form for online banking.

Sign up for your online banking

Banking ID: [   ]

Password: [   ]
Must be six characters or more

Re-type Password: [   ]

If you forget your password or need help with your account, you will need to confirm the following information

Security Question [Select a question to answer] ▼]

Your answer [   ]

Birthday [Select one ▼][   ] (MONTH DD, YYYY)

Current bank [   ]
ACCOUNT NOTICES WILL BE SENT TO THIS BANK ADDRESS, INCLUDING NEW PASSWORD REQUESTS

First Name [   ]   Last Name [   ]

Language & Content [English - United States ▼]

ZIP/Postal Code [   ]   Gender [------ ▼]

Industry [Select Industry ▼]

Title [Select a title] ▼]

Specialization [Select a specialization] ▼]

[20]

QUESTION FIVE

Write the HTML code to produce the following table:

Keystrokes	Action	Similar to UNIX command
r	Rename file	mv
e	Edit file	emacs
c	Copy file	cp
d	Mark for deletion	rm
-	Mark files ending with – for deletion	rm*
#	Mark all auto- save files for deletion	rm#*#
.	Mark all "extra' backs for deletion.7	(none)
u	Undelete	(none)
x	Delete files that are marked	rm and rmdir
v	View files	more
SPACE	Move forward by filename	(none)
DEL	Move backward by filename	(none)
M	Change file permissions	chmod
n	Move forward by filename	(none)
p	Move backward by filename	(none)

[20]

QUESTION SIX

You have just been appointed Senior Systems Engineer for Bathali University. The University has 10500 staff and students. The users need the following services: *Access to web servers, Full Internet, Engineer data interchange.* Design an Internet system for this University. You should include the following terms:

- VPI
- Intranet
- Firewall
- T1
- T3
- Fibre link
- VSAT
- Low orbit
- Router

N.B. You must illustrate your answer with diagrams.   [20]

END OF QUESTION PAPER

GOOD LUCK!