The Open University of Sri Lanka
B. Sc. Degree /B. Sc. Nursing Degree Programme – Level 03
Final Examination 2010/2011
Department of Mathematics and Computer Science
PCU 1159: Computer Skills

Duration: **Two hours only**

Date: 13/12/2010 Time: 09.30 a.m. - 11.30a.m.

Answer FOUR questions ONLY

Question 01

a. What is Von-Newman's Computer architecture? Briefly explain with suitable diagrams.
b. Briefly describe the following terms.
   i. System Unit
   ii. Display devices
   iii. Printers
   iv. Unicode
c. What are the common characteristics of computers?
d. What are the differences between a normal PC and a notebook?

Question 02

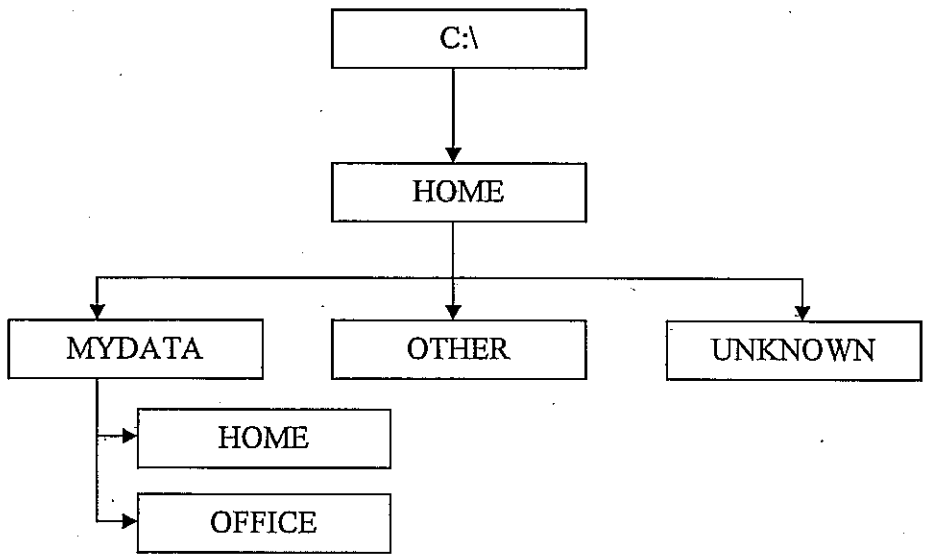
a. Complete the following table

	Windows 98	MS-DOS	Windows Vista	Linux
User type (Single/Multi)				
Task (Single/Multi)				
Network facilities (Yes/No)				
GUI (Yes/No)				
Bit Rate (16/32/64)				

b. What are the equivalent Linux commands for the following MS-DOS commands?

   i. dir
   ii. ipconfig
   iii. edit
   iv. rm
   v. ping

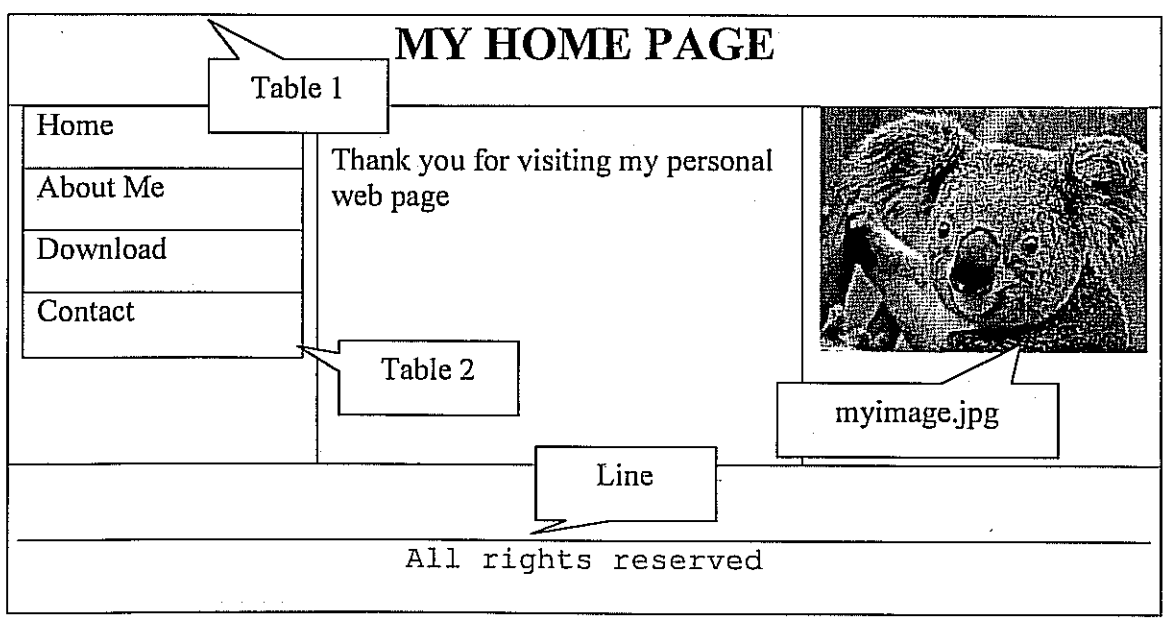
c. Create the following directory structure using MS-DOS Commands.



d. Write suitable MS-DOS commands to do the following tasks.
   i. There are two files named mypaper.doc and myimage.jpg in Home Folder. Move these two files into the OFFICE folder
   ii. Rename OTHER folder as USERDATA

Question 03

a. What is the general format of a HTML document?
b. Write suitable HTML codes to display the following sample page.



c. Write suitable HTML codes to generate the following list.

1. Introduction
2. Software
   - System Software
   - Application Software
   - Programming Software
     1. C++
     2. Java
   - Graphics Design
3. Hardware

Question 04

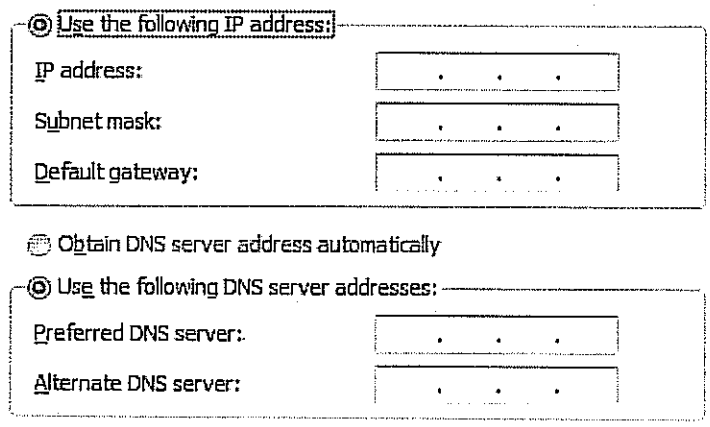
a. Classify computer networks according to its topology.

b. Briefly describe the following terms.
   i. Protocols
   ii. Network switch
   iii. File server and Proxy server

c. Describe the meaning of the following commands.
   i. Ping 10.32.1.1
   ii. Ipconfig/all
   iii. Net view

d. Consider the following information and answer the questions below.
   You need to configure a computer laboratory with 100 computers. You also need to setup a proxy server and a file server.

   i. What is the most suitable network class for the above network?
   ii. Give sample IP configuration for two computers in the above network.



Question 05

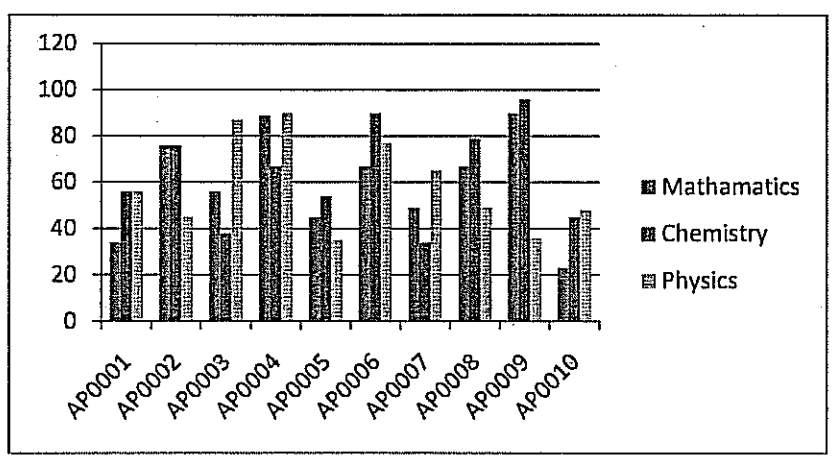
a. Compare the differences between Microsoft Office and Open Office.
b. What are the new features available in Microsoft Excel 2007?
c. Consider the following Excel dataset and answer the questions given below.

	A	B	C	D	E
1	No	IndexNO	Mathamatics	Chemistry	Physics
2	1	AP0001	34	56	56
3	2	AP0002	76	76	45
4	3	AP0003	56	38	87
5	4	AP0004	89	67	90
6	5	AP0005	45	54	35
7	6	AP0006	67	90	77
8	7	AP0007	49	34	65
9	8	AP0008	67	79	49
10	9	AP0009	90	96	36
11	10	AP0010	23	45	48

Write EXCEL functions to do the following:

i. Get the Average marks of each student and save it on the F column
ii. Find the grade for each average mark found in column F and store them on column G using the following criteria
0<=Mark < 40 : F
40<=Mark <70 : C
70<=Mark <=100: A
iii. Get the maximum and the minimum average marks.
iv. Get the average mark of each subject (for all students)

d. Give the steps to create the following graph.



Question 06

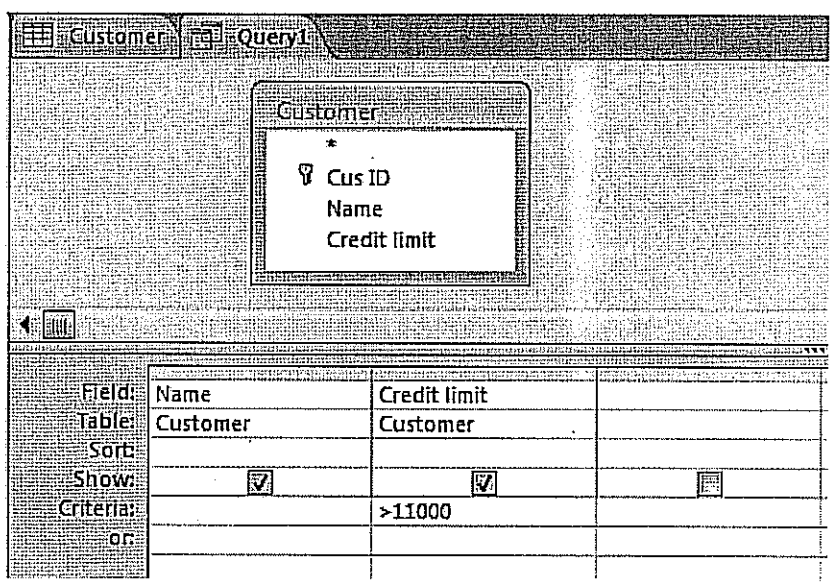
a. Compare the differences between vector images and raster images.
b. Compare the differences between library and e-library.
c. What are the advantages of using NANO technology
d. Briefly describe the following terms;
   i. MS Access tables
   ii. Forms
   iii. Queries
e. Consider the following MS access table.

Customer table

Cus ID	Name	Credit limit
C0001	S. K. Samarasinghe	150000
C0002	P. R. Gunasekara	100000
C0003	B. H. Gamage	125000

Use the above table to answer the following questions.

i. What is the suitable data type for each field?
ii. What is the output of the following query?



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