The Open University of Sri lanka
B.Sc Degree Programme – Level 03
Department of Mathematics and Computer Science
Final Examination 2011/2012
PCU1159 : Computer Skills

Duration:**Two hours only (2 hrs)**
Date:17.12.2011 Time:09.30 am – 11.30 am

Answer FOUR (04) Questions ONLY

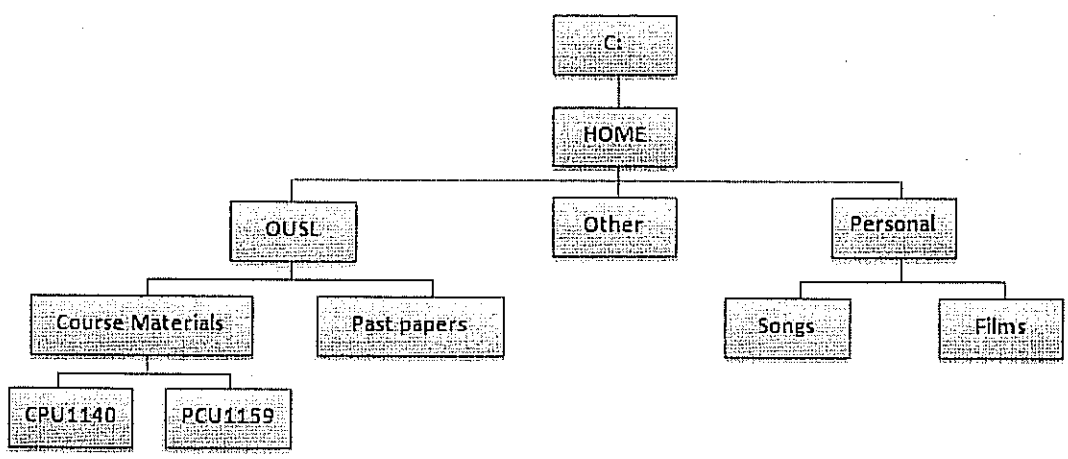
Q1.

a. Name the three types of computers and briefly describe them.
b. Describe the Von Neumann architecture using a named block diagram and briefly describe each part of the architecture.
c. What are the uses of the following hardware components?
   i. VGA
   ii. Modem
   iii. Sound Card
   iv. Network Card

d. Describe the following future software technologies.Give two examples foreachof their use.
   i. Agent based systems
   ii. Natural Language Processing (NLP)

Q2.

a. What are the basic tasks of an Operating System?
b. Briefly describe MS-DOS file system and Windows file system.List two (02) differences between them.
c. Write MS-DOS commands which are required to create the following directory structure.



d.

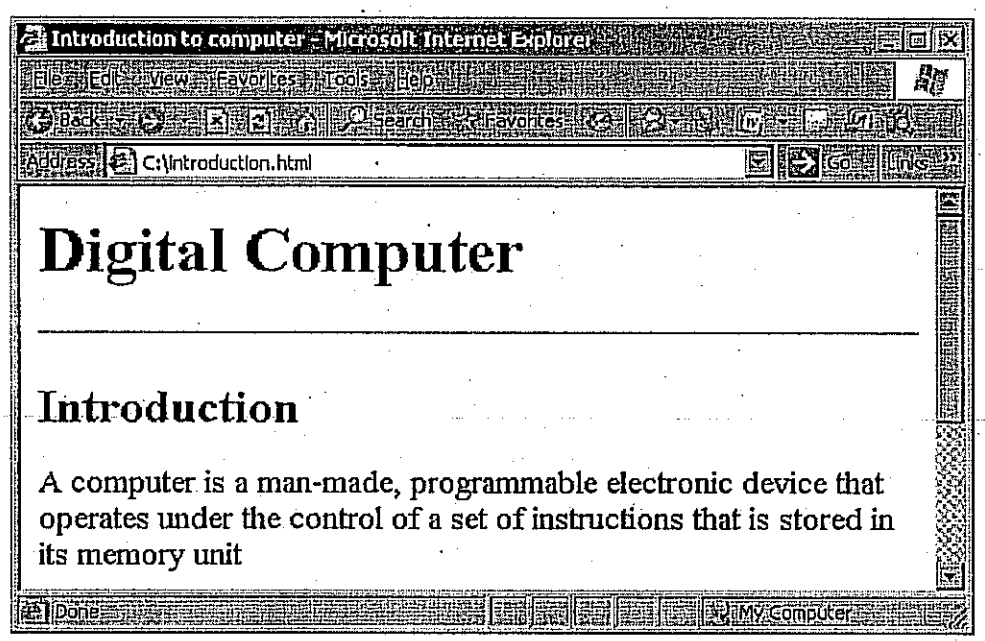
i. The Windows operating system uses separate Window to run each program. Describe five (05) components of the Window.

ii. The Task bar is what appears on the bottom of the screen. Describe four (04) areas of the Task bar.

Q3.

a. What is the basic structure of an HTML document. Briefly describe the use of each tag contained in the above structure.

b. Write HTML code to display the following output on your web browser.



c. Write the HTML code to get the following output.

1. Names
   - Azar
   - Buddika
   - Chandrakala
2. Ages
   - 10
   - 11
   - 12
3. Class
   - 3A
   - 4C
   - 5D

4. Marks
    - Results for Anne
        a. Mathematics – 70
        b. Science – 90
    - Results for Bob
        a. Mathematics – 80
        b. Science – 60
    - Results for Charly
        a. Mathematics – 40
        b. Science – 30

d. Write HTML code to represent the above lists in part c in an appropriate table and draw the output of the code.

Q4.

a. Computer Networks can be classified according to a wide range of characterizationas follows.Briefly describethe classes of classifications given below.
    i. Network topology
    ii. Functional relationship
    iii. Connection method
    iv. Scale

b. Describe the following hardware components.
    i. Network Hub
    ii. Network Switch
    iii. Network Router

c. What are the commands used to
    i. show network settings in the computer.
    ii. show other computers that are available in the network.
    iii. acknowledege another computer.
    iv. get all data aboout the present network.

d. Briefly describe the following terms.
    i. Email Server
    ii. Search engine
    iii. Web cilents
    iv. Add ons

Q5.

a. Name the components included in OpenOffice.org 2.x office suite and describe the uses of them.
b. Describe three (03) advantages of Openoffice.org over other office suites? (List 5)
c. What are the uses of the following Linux Shell commands?
   i. mkdir
   ii. cp
   iii. mv
   iv. rm
   v. chmod

d. Describe the differences between Linux and Windows Operating Systems? (List 2)

Q6.

a. What are the difrferences between Vector and Raster Graphics?(List 2)
b. What are the Text Formatting buttons needed to design the following document in MS Word?

The computer is an electronic device, which operates under the direction of an operating system.

Mouse ~~not an animal~~ is an device of the computer

$AX^2 + BX + C = 0$ is an equation

$A_1 + A_2 + \ldots + A_n$ is a series

Answer the following questions using the MS Excel work sheet given bellow.

	A	B	C	D	E	F	G
1							
2		ABC School Nugegoda					
3		Class 13 B					
4		Mid term test 2007					
5							
6		No	Name	Physics	Maths	Chemistry	
7		1	A. F. Perera	45	67	89	
8		2	A. C. Kumara	34	28	23	
9		3	D.F Silva	23	48	45	
10		4	N.M. Silva	56	72	76	
11		5	S.K. Fernando	78	55	45	
12		6	S.J. Gamage	93	84	66	
13		7	K. N. Peris	42	93	45	
14		8	R. S. Roza	37	67	76	
15		9	S. J. Silva	84	53	38	
16		10	H.B. Zoyeza	56	87	95	
17							

c. Write the Excel functions to get the answers for the following tasks:
   i. Average marks for Maths.
   ii. Total marks of each student.
   iii. Maximum and Minimum for physics.
   iv. Number of students sat for Chemistry.

d. What are the cell formatting options used to design the title part of the above excel work sheet.

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