Higher Technological Institute **10th of Ramadan City** **6th of October Branch** **Electrical & Computer Engineering Dep.**		**1st Year – 1st Term (2016/2017)** **Computer Skills** **Time Allowed: Two Weeks** **Group (All)**

(1) What is meant by the following abbreviations?

- WAN : ....
- ECDL : ....
- LAN : ....
- POST : ....
- CPU : ....
- ADSL : ....
- Hz : ....

(2) What are the main computer types?

(3) State whether each of the following is (√) or (X):

i. Output devices allow you to output information from the computer ( )

ii. Analog system is 1 or 0 representation ( )

iii. Software is the operating system software only ( )

iv. The PC casing is the name given to the system unit ( )

v. Scanner is considered as output device ( )

vi. Trojan horse is a type of computer virus ( )

vii. A database program allows you to produce professional looking presentation ( )

viii. It is not preferred to install more than one RAM in PC ( )

ix. The storage capacity Megabyte is larger than Gigabyte ( )
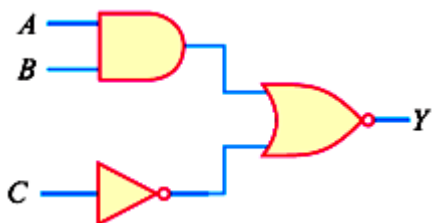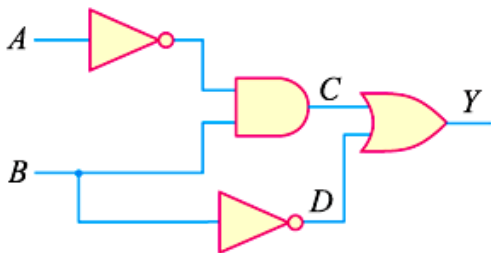
x. Touch screen is considered as input device ( )

(4) Write down the scientific term for the following:

a) An output device used to play music (…………..……………..)

b) A program used to produce a good presentation on the computer (……………………..)

c) Monitor, Plotter, Touch screen and Speaker (…………………………..)

d) Is considered as the brain of the computer (…………………………..)

e) Transfer rate of the modem is measured by (…………………………..)

f) A device converts hard paper copies into soft copies (…………………………..)

(5) Convert the following numbers to the required bases:

- $(415)_8 = (\ldots\ldots\ldots\ldots)_{10}$

- $(1011001011010)_2 = (\ldots\ldots\ldots\ldots)_8$

- $(687)_{10} = (\ldots\ldots\ldots\ldots)_{16}$

- $(263)_8 = (\ldots\ldots\ldots\ldots\ldots)_2$

- $(10101)_2 = (\ldots\ldots\ldots)_{10}$

(6) Produce a truth table from the following Logic Circuit

(7) Using the truth table of basic gates to show that:

$$\overline{A.B} = \overline{A} + \overline{B}$$