# ICT4LT
## FINAL TEST OPEN BOOK NO LAP-TOP (100 menit)

Name: _____Student ID #: _____ Class: SAT/MON

You do not need any extra paper, write down all your answers right here ! Use the back page if necessary.

1. "*The **ICT**-based Educational Technology has a very important role in developing the* Student-Centered Learning *system in a higher education institution*".
   Does the word "*Technology*" in the above statement have an "*extended*" or an "*isolated*" meaning?  Answer: _____(*5 points*)
   Please describe your view on the "*important role*" of the **ICT** as mentioned above (*10 points*):

2. Create **1 (ONE)** sentence using both "**technique**" and "**technology**" to show clearly the different meanings of those two words! (*5 points*)

3. List 6 (six) examples of the teaching format (*5 points*):

| Talk and chalk | | |
|---|---|---|
| | | |

4. List 6 (six) aspects to support the teaching skills (*5 points*):

| Experience | | |
|---|---|---|
| | | |

5. In one of your group assigments, your group has made a visit to an **ICT** facility for education (*15 points*):
(a) Name the **ICT** facility your group has visited: _____
(b) List 2 (two) examples of *hardware*, *software* and *humanware* aspects at the **ICT** facility:

| hardware aspects | software aspects | Humanware aspects |
|---|---|---|
| | | |
| | | |

6. Your group has interviewed a practicing teacher to make an assessment on her/his mastery in **ICT** and how he/she uses the **ICT** to support his/her job (*10 points*):
(a) The teacher's name: _____ place of work: _____
(b) His/her mastery of **ICT** is (*circle only one answer*):
        * Extra Ordinary      * Good        * Not Quite Good
(c) Explanation of 6(b):

7. Who are **Norbert Wiener**, **Claude Shannon** and **Warren Weaver**? Who among them are called "*the engineers of communication*" by **Rogers [1986]**? (*10 point*)
*Answer*:
*Norbert Wiener* :

*Claude Shannon*::

*Warren Weaver* :

*The engineers of communication*: _____and _____

8. What **mode** of communication did **Shannon** and **Weaver's model** of communication originally represent? *Answer*: _____*mode*. **2 (two)** other **modes of communication** derived from the same model are: (a) _____ and (b) _____ (*10 points*)

9. <u>The smallest unit</u> of information is _____ stands for (an abrreviation of) _____? (*5 points*)

10. Create 16 (sixteen) different "*4-bit binary codes*" to identify 16 different persons (*10 points*):

| A: | E: | I: | M: |
|---|---|---|---|
| B: | F: | J: | N: |
| C: | G: | K: | O: |
| D: | H: | L: | P: |

11. Write down your answers below, or use the back page if necessary:
(a) If each **letter** or **character** is coded into a **10 bit binary code** of information, every **word** is made up from **5 letters** in average, and the content of every **page** is about **500 words** in average, how many **bits** of information are there contained in a **275-page** book? (*5 point*).
(b) How many books about the same size as described in 11(a) can fill up an **8 Mb Flash Disk**? (*5 point*).
*Answer*:
11. (a)