

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 assignments, 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:

<i>hardware aspects</i>	<i>software aspects</i>	<i>Humanware aspects</i>

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):

(use the back page if necessary)

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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. The smallest unit of information is _____ stands for (an abbreviation 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 MByte Flash Disk**? (Note: **1 Byte = 10 bits**, so **8 MByte = 80 Mbit**)(5 point).

Answer:

11. (a)