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

Name: **DEWI SARTIKA S.Pd** _____ Student ID #: **12B01204** _____

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

1. Why should we learn about ICT (10 points):

- Developing the technology provides a tremendous opportunity for developing education management and learning process in schools.
- can be identified by the use of new technology.

- ICT has great potential to transform all aspects of education in the schools and use them to achieve learning goals.

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

Talk and chalk	master - apperrentice	study - circle
speech - presentation	Drill - practice	test - exam

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

Experience	style	technique
talent	knowledge	methodology

5. In one of your group assigments, your group has made a visit to an ICT facility for education (10 points):

(a) Name the ICT facility your group has visited: ___SMK Nurkarya Tidung___

(b) List 2 (two) examples of *hardware, software* and *humanware* aspects at the ICT facility:

hardware aspects	software aspects	Humanware aspects
keyboard	windows	computer operator
mouse	linux	computer engineers

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: ___Rahmat, S.Pd.___ place of work: ___SMK Nurkarya Tidung___

(b) His/her mastery of ICT is (circle only one answer):

     * Extra Ordinary   * Good   * Not Quite Good

(c) Explanation of 6(b): the ability of teacher is good because can give help students to understand how to operate and students will not get bored.

(use the back page if necessary)

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7. A society where the majority of its population earn their living as **information workers** is called an _information society_ society (5 points). What do **Information workers** do for living? (10 points) _Answer:_ They _are producing, processing, distributing information producing the information technology._

Examples of **information workers** are (give three more): _Teachers, _____

8. There are 3 (three) levels of Information Systems, from the lowest to the highest (10 points):
   1. _Manual_ - based Information Systems
   2. _Computer_ - based Information Systems, and
   3. _Network_ - based Information Systems

8. What **mode** of communication did **Shannon** and **Weaver's model** of communication originally represent? _Answer:_ _Simplex mode_ mode. 2 (two) other **modes of communication** derived from the same model are: (a) _Full suplex_ and (b) _Half puplex_ (10 points)

9. The smallest unit of information is _Bit_ stands for (an abreviation of) _Binary digit._ ? (5 points)

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

A: 0000	E: 0111	I: 1011	M: 1110
B: 0011	F: 0100	J: 1001	N: 1100
C: 0010	G: 0110	K: 1010	O: 1110
D: 0001	H: 0101	L: 1010	P: 1111

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 **250-page** book? (5 point).
(b) How many books about the same size as described in 11(a) can fill up an **8 GB Flash Disk**? (_Note:_ 1 **B(yte) = 10 b(its)**, so 8 GB = 80 Gb)(5 point).

Answer:

11. (a) letter = × 5

page - 250

words = × 500

= 250 × 5 × 500

= 625.000 × 10 bit.

= 6.250.000 bit.

b . e book size = 6.25 Mb

flash disk capacity = 8 Gb

= 80 GB → 80.000 Mb

= 80.000 / 6.25

= 12.800

In 8 Gb from flash disk that is have 12.800 book are about the same size descibed.