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

Name: _Djahuri_   Student ID #: _12 BO1196 /E_

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*)?

a) Nowdays, no reasons for learn ICT, because all of our life aspects, Teachers or lecturer, officer use ICT in their activity

b) Without ICT We have difficulties to find information.

- Through ICT. Teachers are able to create interactive classes and make the subjects more enjoyable.
- With ICT can enhance students motivation in learning, especially English language
- Now. Teacher should use a technology as a media in teaching learning process.

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

Talk and chalk	- Drill - practice	presentation
Text - Exam	- study Circle	Mastery apprentice

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

Experience	Knowledge	Methodology
Talent	Style	Environment

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: _Lab. Computer of SMPN 37 Makassar_

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

hardware aspects	software aspects	Humanware aspects
Cpu	program	Computer operator
Mouse	Operator system	Teacher

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: _Surya SF_   place of work: _Smp 37 Makassar_

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

* Extra Ordinary   * **Good**   * Not Quite Good

(c) Explanation of 6(b):

- His mastery ICT is good
- ICT can improve the student and teachers ability and make them mastery in using ICT are good
- The students and teachers can use ICT to presentation of their lessons in Lab.

(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 (5 points). What do **Information workers** do for living? (10 points) _Answer_: They _always use ICT facility in their activity and job to process materials or use communication in their office_

Examples of **information workers** are (give three more): _Teachers, students, operators (engineers)_

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. **2 (two)** other **modes of communication** derived from the same model are: (a) _full duplex_ and (b) _Half duplex_ (10 points)

9. The smallest unit of information is _1 Bit_ stands for (an abrreviation of) _Binary Digit_ ? (5 points)

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

A: 0 0 0 0	E: 0100	I: 1000	M: 1100
B: 0001	F: 0101	J: 1001	N: 1101
C: 0010	G: 0110	K: 1010	O: 1110
D: 0011	H: 0111	L: 1011	P: 1 1 1 1

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)

(b) 80.000 %, 25 = 0. 12 800 books are the same size.

11. a) 1 Character = 10 bit binary code
   1 word = 5 letters
   1 page = 500 words.

- 5 x 10 = 50 bit binary code
- 50 x 500 = 25.000 /page
25.000 x 250 = 6.250.000 bits.