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

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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):**

We should learn about ICT because by learning the ICT, we can communicate to all people around the world. In this case, learning about ICT is used not only for communicating to other people but also we can get many informations by using technology.

The information can be about article that written by other people, electronic book (e-book), also we can share or give information to other people.

So that, in this case the ICT is an important tools in communicating.

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

| Talk and chalk | examination | Group discussion |
|---|---|---|
| Literacy Circle | Presentation of material | Master · Aprentice |

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

| Experience | technique | Methodology |
|---|---|---|
| Knowledge | style | talent |

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

| hardware aspects | software aspects | Humanware aspects |
|---|---|---|
| Keyboard | Linux | Computer operators |
| Printers | Moodle | Computer Programmers. |

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: Drs. Rusli, M.pd _____ place of work: UNM. Gunung Sari
(b) His/her mastery of **ICT** is (*circle only one answer*):
     * Extra Ordinary   (* Good)   * Not Quite Good
(c) Explanation of 6(b):

His mastery of ICT is good, because He can support administration of information, communication and telecommunication in University and academic functional. He can provide the facility to support the education activity, research and develop the system of communication in Campus.

*(use the back page if necessary)*

*page **1** out of **2** pages*

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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 getting , producing , processing and distributing the information that they got from other people to the other people.

Examples of **information workers** are (give three more): Teachers, newspaper , magazines reporters, Scientists , and also can be computer programmers.

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 or Line _____ - based Information Systems

8. What **mode** of communication did **Shannon** and **Weaver's model** of communication originally represent? *Answer.* Simple Mode _____ 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: 1 0 0 0 | I: 0 1 0 0 | M: 1 1 0 0 |
|---|---|---|---|
| B: 0 0 0 1 | F: 1 0 0 1 | J: 0 1 0 1 | N: 1 1 0 1 |
| C: 0 0 1 0 | G: 1 0 1 0 | K: 0 1 1 0 | O: 1 1 1 0 |
| D: 0 1 1 1 | H: 1 0 1 1 | L: 0 0 1 1 | 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)  250 pages
         x5 letter
        x500 words
       _____
        625.000 x 10 bit = 6.250.000 bit.

   (b.) flash disk capacity : 8 GB = 80 Gb → 80.000 Mb.
        e-book size = 6.25 Mb
        80.000 / 6.25 = 12.800
        12.800 books are the same size as described
        in 8 GB. flash disk.