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*):

ICT is Information Communication Teaching, It's very important to learn because in our daily activity we never stop communicative and use Information tech nology. ICT are being increasingly used in education in both the developed and world, In order to reach out to children from poor and remote communities, Provide them with a quality education, and general equip both a person to another Person.

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

Talk and chalk	Master Apprentice	Persentation
Speech	Study urcle	drill (Practice, test, exam)

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

Experience	Knowledge	Technique
talent	Style	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: _____
(b) List 2 (two) examples of *hardware*, *software* and *humanware* aspects at the **ICT** facility:

hardware aspects	software aspects	Humanware aspects
disk drives	Linux	Computer Operators
display Screen	Moddle	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: Syamsir, S. Kom   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 very specify usability objectives for each task or Capability. He is very diligent also. Provide the prototy to the program designers and coders.

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

Examples of **information workers** are (give three more): _Teachers, lecturer, researchers, academicians, Manager, Secretary_

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 _Bit_ stands for (an abbreviation 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) 10 bit word = 5

     Content = 500 words

     1 word = 5 letters

     1 letter = 10 bit

250 x 500 x 5 x 10 bit = 6.250.000

b) 8GB = 80 GB = 80.000 MB

     ebook Size = 625 MB.

     Tadi = $\frac{80.000 \text{ MB}}{625 \text{ MB}}$ = 12.800