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 learn about ICT, because we will acquire knowledge and skills indispensable to solve technical problems independently and innovatively.
"According to UNESCO (2003): ICT is generally relates to those technologies that are used for accessing, gathering, manipulating and presenting or communicating information. The technologies could include hardware e.g. computers and othe devices, software applications and connectivity e.g. access to the Internet, local networking infrastructure, and video conferencing".

* ICT is a valuable tool to enhance teaching and learning. For teachers, ICT is a professional resource, a mode of classroom delivery, and a source of valid and valuable text types. For students, ICT provides opportunities to communicate more effectively and to develop literacy skills including skills in critical literacy. it is a valuable tool for researching, composing, and responding.

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

Talk and chalk	Master Apprentice	Study Circle
Speech - presentation	Drill - practice	Test - Exam

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

Experience	Talent	Knowledge
Style	Technique	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
•) Input device = keyboard, mouse	•) software operating = Windows, Linux	•) Computer control, operator
•) output device = Printer, monitor	•) application software = microsoft office	•) enginering

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):

His mastery of ICT is a good teacher at our school, because he can providing opportunities for students to learn, learning to know, learning to do, learning to be, learning to live together. And he can explore his job and support his job with used media, online, sharing knowledge with his students through Internet.

(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_ _and producing the information technology._

Examples of **information workers** are (give three more): Teachers, _Lectures , researchers,_ _academicians, manager , and 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_ 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 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: 0 1 0 0	I: 1 0 0 0	M: 1 1 0 0
B: 0 0 0 1	F: 0 1 0 1	J: 1 0 0 1	N: 1 1 0 1
C: 0 0 1 0	G: 0 1 1 0	K: 1 0 1 0	O: 1 1 1 0
D: 0 0 1 1	H: 0 1 1 1	L: 1 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) Dik : letter or character = 10 Bit binary code   (11)b. Dik = Flash Disk capacity = 8GB = 80Gb
          letter = 5   = 80.000 Mb
          content page = 500 words   ebook size = 6.25 Mb
    Dit: How many bits? → 250 page book .   Dit: books the same size ?
    Jb: 250   pages   Jb: $\frac{80.000 \text{ Mb}}{6.25 \text{ Mb}}$ = 12.800
         5   letter
        500   words
    625.000 × 10 bit = 6.250.000 Bit   ∴ 12.800 books are about the same size as
                                                    described in 8GB Flash disk.