

## ICT4LT

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

Name: Aminuddin, S.PdStudent ID #: 12301200

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):

- + Recently, we cannot avoid ICT, Because we need it in this life especially in educational aspect, ICT is needed for the teacher to facilitate the learning process for example
  - Use Internet (Google, Yahoo), Macromedia, Power point.
- + we should learn ICT because to use ICT for teaching to find and use the information, to easily in practicing operating technology

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

Talk and chalk	Presentation	Study circle (Tutor-notice)
Speech	Master-Apprentice	Drill (Practice, Test, Exam)

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

Experience	Talent	Methodology
Tools	style	Knowledge

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

(a) Name the ICT facility your group has visited: Language and computer laboratory of SMA Negeri 1 SINGAI

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

hardware aspects	software aspects	Humanware aspects
Keyboard	Dictionary. exe	Programmer
Mouse	Adobe reader	Technician

## 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: Andi Liza Dara Sari place of work: Singai (SMA Negeri 1)

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

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

(c) Explanation of 6(b):

She Applies ICT in teaching english subject at class. for example she operate laptop in class delivering material and also using software for example.

- Microsoft office Word 2007
- Adobe reader
- Dictionary exe.
- Microsoft office Power Point 2007.
- Microsoft office Excel 2007.

(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 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 1 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: 0000	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: 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 **Byte** = 10 b(its), so 8 GB = 80 Gb)(5 point).

Answer:

11.(a)  $250 \times 500 \times 5 = 625000$

$625000 \times 10 \text{ bit} = 6250.000 \text{ bit}$

11(b) From above we get conclusion about 8 GB can be describe 12.800 books

The way as follow

Flash disk 8 GB = 80 Gb = 80.000 MB

$80.000 / 6.25 = 12.800 \text{ books}$