

ICT4LT

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

Name: MASSAADA, S. Pd Student ID #: 12501199

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):

1. Because the Competition in modern Era (Global reason)
2. Education Because the needs of Learning teaching process
3. Technology Because the development of technology
4. The winners today is Someone who have skill or know well about Ict

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

Talk and chalk	Study - circle	Drill, practice
Master - Apprentice	Speech - presentation	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 assignments, 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
RAM, Hard disk	Adobe Photoshop, Mozilla	Operator
LCD	Google chrome	Engineering

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 good because he can create enjoyable atmosphere. So, student can be motivated to learn. Beside that, through ICT he can presents the material easier and it can help student in understanding and mastering four skills namely listening, speaking reading and writing.

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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 or distributing

Information and producing Information technology

Examples of **information workers** are (give three more): Teachers, Scientists, newspaper reporters, Computer programmer.

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 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 B(byte) = 10 b(its), so 8 GB = 80 Gb)(5 point).

Answer:

11. (a) 250 pages

x 5 Letter

x 500 Words

$$625.000 \times 10 \text{ bit} = 6.250.000 \text{ bit}$$

(b). Flash disk Capacity = 8 GB = 80 Gb → 80.000 Mb

2-book size = 6.25 Mb

$$80.000 / 6.25 = 12.800$$

12.800 books are about the same size as described in 8 GB Flash disk