

ICT4LT

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

Name: JUNAID, S.pd Student ID #: 12B01202

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):

The global competition era is one of the many reasons about the importance of ICT. We have to know the ICT to improve ourselves because learning and teaching process cannot be separated with ICT. Using power point, movie, internet, and the other tools of ICT are very important to use to make the learning and teaching process will be easy to do. With the ICT, we are not limited by the distance and time to study. The information workers will be difficult to do their duty without ICT. ICT can enrich and enhance instructional experience for both the teacher and the learner or the all general people. Teaching and learning with ICT exploring, on many level how ICT can provide resources for all people. ICT makes the relation to the other people, place, and citizens are easy.

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

Talk and chalk	Master - Apprentice	Study Circle (Tutor - Novice)
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 assignments, your group has made a visit to an ICT facility for education (10 points):

(a) Name the ICT facility your group has visited: MAN Majene

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

hardware aspects	software aspects	Humanware aspects
Computer (PC)	Linux	operator
Network components	Microsoft windows	Programmer

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: Dr. St. Badriah place of work: MAN Majene

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

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

(c) Explanation of 6(b):

→ Her mastery of ICT is good.

\* Using ICT in her school to improve the students motivation in learning is good because the ICT can be used by the students to improve their achievement.

\* She can explain the tools of ICT before practice and the students are able to understand the material. (use the back page if necessary)

\* She can use and apply ICT in the learning and teaching process

\* Internet, LCD projector, and the other tools of ICT can be used by her.

\* She can answer the all questions about ICT from the interviewer.

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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 are producing, processing, distributing information, and producing the information and technology.

Examples of information workers are (give three more): Teachers, Lecturers, Researchers, and Academicians.

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) Half Duplex

and (b) full 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) → 5 Letters x 500 words x 200 pages

$$= 625.000$$

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

$$= 6.250.000 \text{ bit}$$

(b) → Flash Disk 8 GB = 80 Gb

$$= 1 \text{ Gb} = 1000 \text{ mb}$$

$$= 80 \times 1000$$

$$= 80.000 \text{ mb}$$

$$= \text{Book size} = 6.25 \text{ mb. (6.250.000 bit)}$$

$$= 80.000 \text{ mb} / 6.25 \text{ mb.}$$

$$= 12.800 \text{ books.}$$