

THE UNIVERSITY OF ZAMBIA

In association with

THE TECHNICAL AND VOCATIONAL TEACHERS' COLLEGE

C65 April 2010 Test.

SUBJECT: Educational Technology

DURATION: One (1) hours

MARKS: 50

INSTRUCTIONS TO CANDIDATES

1. Write your college number in the space provided on your answer booklet.
2. This paper has two sections- Sections A and B
3. Section A has two parts – 1 and 2
4. Answer all questions in this paper
5. Read each questions carefully before responding to it
6. Write all your answers in the booklet provided
7. Marks will be given for good handwriting and clarity of expression
8. **Do not turn** the paper until you are told to do so

Section A – PART 1

For each of the following items 1- 8, select the correct answer by writing the corresponding letter in your answer booklet.

(Each question carries 1 mark = 8)

1. Which one of the following suggested answers is not a factor of selection of teaching aids.
 - (a) Teacher's attitude and skill
 - (b) Type of learning activity
 - (c) Objectives of the lesson
 - (d) Type of the teaching aid
2. Audio- visual aids should be considered by the teacher as a
 - (a) device which saves the teacher's preparation time
 - (b) substitute for traditional teaching
 - (c) solution to the problem of teacher shortage
 - (d) supplement to other devices for teaching
3. Using projected aids, How will you will fill the screen with the image?
 - (a) By moving projector closer to the screen
 - (b) By moving projector near to the audience
 - (c) By moving projector in line with the screen
 - (d) By moving projector away from the screen
4. The primary objective of projected aids is to
 - (a) enable both the teacher and the learners to see each other
 - (b) enable a large group see the illustration at the same time
 - (c) maintain silence in the classroom
 - (d) enable the students pay more attention
5. What reason would you give as to why the teacher should endeavor make his/her chalkboard work neat and clean?
 - (a) The board provides a good writing surface
 - (b) The board comes in different colours
 - (c) The board is the centre of attraction
 - (d) The board is always available

6. Which one of the following will determine the durability of finished charts?
- (a) The materials selected for making charts
 - (b) The skill the teacher develops during training
 - (c) The time taken to prepare the charts
 - (d) The knowledge the teacher has to produce charts
7. At what level of education should educational aids be first introduced?
- (a) Secondary level
 - (b) Nursery level
 - (c) Primary level
 - (d) University level
8. Which one of the following is not an element of importance of colour in a visual aid?
- (a) Makes abstraction real
 - (b) Attracts attention
 - (c) Adds interest
 - (d) Improves visibility

SECTION A - PART 2

Read each statement carefully and respond by writing either TRUE or FALSE against the number of the question responded to, in your answer booklet. (Each question carries 1 mark = 7)

9. An opaque projector uses opaque transparencies
10. Chalkboards are now available in various colours except white
11. A three dimensional aid is one that reflects no form
12. Most experiences are obtained through ears
13. Teaching aids are aids to teaching rather than learning
14. When presenting overhead transparency visuals, the operator looks at the image on the screen rather than the projector stage
15. Charts are best stored by subjects and not sizes.

SECTION B

Answer all questions in this section.

16. (a) What three characteristics of good chalkboard writing should the teacher aim at when writing on the chalkboard?
(3 marks)
- (b) Planning is said to be the basis for successful presentation and use of teaching aids. State five things that planning will enable a teacher to do when using teaching aids.
(10 marks)
- (c) In the ABC test of a good chart, what does the letter "A" stand for?
(3 marks)

Total marks = 16

17. (a) Keystone image is one problem which is encountered when using an Overhead projector. Give a short description of keystone image and how it can be corrected.
(4 marks)
- (b) What five principle factors should the teacher consider when designing overhead projector transparencies? (10 marks)
- (c) List five common elements of most projectors.
(5 marks)

Total marks = 19

END OF EXAMINATION

THE UNIVERSITY OF ZAMBIA

In association with

THE TECHNICAL AND VOCATIONAL TEACHERS' COLLEGE

COLLEGE DIPLOMA EXAMINATION

December 2008 Examination

Course: Technical and Secondary School Teacher
Education

Subject: Educational Technology

MARKING GUIDE

Section A – Part 1

1. D

2. B

3. A

4. D

5. A

6. B

7. C

8. A

9. B

10. A

Section A – Part 2

11. F

12. T

13. F

14. T

15. T

16. T

17. F

18. F

19. F

20. F

SECTION B

QUESTION 21

(a) **Pedagogical purposes of a field trip** (12 marks)

Any six points from the following

- Provides a source of enrichment for factual information read in textbooks
- Makes words on the printed page meaningful
- Improves attitudes
- Expands understanding
- Increases skills
- Provides firsthand experiences with objects, places, situations and human relations that cannot be brought into the classroom
- Sharpens awareness of the learners of environment
- Exposes learners to careers that they might want to pursue

(b) **ABC test of a good chart**(3 marks) –

“A” stands for:-

- Accurate
- Artistic
- Appropriate

- (c) Real objects not available when and where they are needed *-(5 marks)*

Reasons- they are:-

- Too big
- Too complex
- Too heavy
- Too costly
- Too dangerous

QUESTION22

- (a) Characteristics of good chalkboard writing *(3 marks)*

- Uniformity in style and size of letters
- Uniformity in spacing between words and lines
- Writing must be horizontal

- (b) Writing on the white board tends to be difficult because:-

- There is less resistance between the marker and the board *(2 marks)*

- (c) Planning for use of teaching aids will help the teacher to:

- Know which appropriate materials to use
- Know where to use the aid
- Know when to use the aid
- Know how to use the aid
- Know why it should be used

(2 marks each=10)

(d) Factors for choosing a textbook (5 marks)

Any five of the following:-

- Title of the book
- Edition of the copy
- Content of the material
- Sequencing of topics
- Language level
- Appropriateness of materials in terms of technology
- Appropriateness of materials - culturally
- Balance between theory and practice
- Teaching and learning approach of materials
- Glossary
- Layout of materials

QUESTION 23

(a) Reason for using pausing button when using Video for Teaching (6 marks)

- Stopping the video to check student comprehension keeps students alert
- Provides an opportunity for students to ask questions

(b) Principles for designing OHP transparencies (2 marks each= 10)

- Lettering must be clear, large and consistent
- Limit amount of information
- Present one idea per slide
- Use colour for variety and emphasis
- Pointers should have different colours

(c) *basic value of teaching aids lies in
Any two of the following:*

- Their ability to appeal to the senses
- Their ability to attract and hold attention
- Their ability to focus on essential elements to be learnt at the proper time

(2 marks each = 4)

QUESTION 24

(a) *Basic elements of computer system (3 marks)*

- *Hardware*
- *Software*
- *Human ware*

(b) *Description of components in (a) –*

- Hardware= Physical equipment
- Software = Set of programs/set of instructions
- Human ware= Personnel involved in operations and maintenance of hardware and software

(2 marks for each = 6)

(c) *Advantages of using audio cassettes in teaching(3 marks)*

- Can be used at any time
- Can be stopped and started at teachers own choice time
- Can be replayed
- Can be edited

(d) *Achievement of using motion pictures to evaluate students' knowledge and ability to analyze (4 marks)*

- Motion pictures can be stopped at any time and
- learners can be given time to answer and ask questions

(e) *Sources of flat pictures (4 marks)*

Any four of the following:-

- *Commercial suppliers*
- *Magazines*
- *Newspapers*
- *Catalogues*
- *Calendars*
- *Posters*
- *Books*