



UNIVERSITY OF JOHANNESBURG
FACULTY OF EDUCATION
NOVEMBER EXAMINATION 2014

PROGRAMME: B Ed (PGCE)
MODULE: SUBJECT METHODOLOGY: COMPUTER APPLICATIONS
 TECHNOLOGY
CODE: XCA0001
TIME: 3 hours
MARKS: 100
EXAMINER: Mr G Kenning
MODERATOR: Dr R Dlamini (WITS)

(This paper consists of 5 pages)

INSTRUCTIONS

Read the following instructions carefully before answering the questions.

1. Ensure that you answer all four questions.
2. You are expected to demonstrate a working knowledge of the learning content given in the CAPS document by using different examples of specific learning topics throughout this paper. Do not use examples given in any of the questions.
3. The abbreviation "CAT" has been used for "Computer Applications Technology".

QUESTION 1

- 1.1 The CAPS document outlines the main topic areas of the CAT curriculum.
 - 1.1.1 The curriculum is divided into six broad topic areas. List these six topic areas and provide a very brief description of each. (6)
 - 1.1.2 A seventh topic is also mentioned which should be included when teaching the other six topics. Name this seventh topic. (1)
- 1.2 How many hours should the timetable allow for the teaching of CAT per week? (1)

- 1.3 The CAPS document provides the formal assessment requirements for CAT. Describe, in detail, the Grade 10 and 11 requirements, including the contributions of each part toward the final year mark. (8)
- 1.4 The CAPS document makes provision for six specific aims of CAT. List any four of these aims. (4)
- (20)**

QUESTION 2

- 2.1 Explain what is meant by the term “re-curriculating” by giving an example of where and how you have had to do so during your Teaching Experience. (2)
- 2.2 The possible entry situation the teacher considers during lesson planning and the actual entry situation may differ. Describe a possible example of how this may occur, the effect it would have on the lesson and a possible course of action the teacher should take to deal with the matter. (3)
- 2.3 The following are poorly written lesson objectives related to theory content. Rewrite each lesson objective so that it correctly includes all the necessary aspects of a well-written lesson objective. You may refine the topic if you feel it necessary to do so.
- 2.3.1 Understand output devices.
- 2.3.2 Wired vs wireless connections.
- 2.3.3 Know about office automation.
- 2.3.4 Discuss storage. (8)
- 2.4 Give a brief outline of Bloom’s Revised Taxonomy and provide an example of a lesson objective for each level from the practical portion of the curriculum. (12)
- (25)**

QUESTION 3

3.1 *Three modes of teaching can be identified.*

Discuss this statement by:

- Naming the three modes
- Describing each mode briefly
- Providing a motivated example of a CAT topic that could be taught using that mode. (9)

3.2 Explain what is meant by the following statement:

A good teacher is neurostentically flexible.

Your answer should make it clear that you are familiar with Maarschalk's neurostentic model. (4)

3.3 Instructional techniques may be classified as verbal or non-verbal.

3.3.1 Name two kinds of verbal instructional techniques and provide an example of a classroom situation when you would use each. (4)

3.3.2 Provide two examples of non-verbal instructional techniques that could be used to provide encouragement to a learner. Briefly state the context of when you feel it appropriate to use each technique. (4)

3.4 A relationship exists between instructional activities and learner activities.

Explain why this relationship exists. Include an example in your answer. (3)

3.5 The incorrect use of media can lead to several problems. Describe three of these problems and state what action you should take to ensure that they do not arise. (6)

(30)

QUESTION 4*Scenario:*

In the previous lesson the learners encountered Access for the first time. They were told to do an activity for homework in which they were to create a table and enter some records.

Today the teacher is late, so the learners have entered the classroom and are all seated, most are chatting loudly while others are playing computer games saved on their flash disks. The teacher rushes into the classroom and says "Sorry I'm late. I think I'm supposed to show you how to do queries today."

The classroom has a data projector and an interactive whiteboard. The teacher uses the projector to project her computer's screen to the class. She opens and closes a number of databases in succession mumbling "No, not a good one to use..." Eventually she says loudly over the noise of the learners, "Yes, this one will do, listen carefully" and she quickly demonstrates how to create a query with a single criteria. At the end of the demonstration she says "You can also do complex queries using multiple criteria on different fields making use of 'and' and 'or' between them." She then instructs the class to open their textbooks and complete an exercise consisting of five queries before the start of the next lesson.

As the learners begin working on the exercise the teacher's cell phone rings and she goes out onto the corridor to answer it. She is still busy with the phone call when the bell rings for the end of the period.

- 4.1 The introduction to this lesson is inadequate in many respects. Provide a detailed explanation as to how you would deliver the introduction to this lesson. In your answer mention the problems with the scenario's introduction and how you are correcting them. (6)

- 4.2 Describe how you would teach the main part of the lesson in the scenario. Remember to include the teacher activities, the learner activities and the media you would use. Indicate which activities would be regarded as instructional activities and which would be regarded as functionalization activities. You may assume that you are teaching in a very well-resourced school. (10)
- 4.3 Explain how you would include evaluation during the main part of the lesson you described in question 4.2. Motivate your choice of evaluation. (4)
- 4.4. The teacher in the scenario has failed to provide a lesson conclusion. Describe how you would conclude the lesson. (5)
- (25)**

TOTAL: 100

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