



UNIVERSITY OF JOHANNESBURG
FACULTY OF EDUCATION
NOVEMBER / DECEMBER
SUPPLEMENTARY EXAMINATION 2014

PROGRAMME: B Ed (SENIOR PHASE)
MODULE: LEARNING AREA METHODOLOGY 3B: NATURAL SCIENCES
CODE: LMN3B20
TIME: 2 hours
MARKS: 100
EXAMINER: Dr R Grobler
MODERATOR: Prof J de Beer

(This paper consists of 2 pages)

INSTRUCTIONS

Read the following instructions carefully before answering the questions:

1. Questions can be answered in any sequence. Just ensure that you clearly number your answers.

QUESTION 1

- 1.1 What is assessment? (5)
 - 1.2 Distinguish between informal and formative assessment and give one example to illustrate each. (10)
- (15)**

QUESTION 2

- 2.1 Distinguish between self-assessment, peer assessment, group assessment and teacher assessment. (8)
 - 2.2 Briefly explain how you would use each of these methods to assess learner performance in the Natural Sciences classroom. (12)
- (20)**

QUESTION 3

The levels in Bloom's revised taxonomy refer to the complexity of the intellectual activity required from the learner. Discuss each of these levels and indicate the progression from the simplest to the most complex levels of knowledge and intellectual skills.

(20)

QUESTION 4

Design a rubric for assessing an experimental investigation done individually in the Natural Sciences laboratory. Learners need to follow the instructions for the experiment, make accurate observations and write a report based on their findings. You have to use three criteria for learner assessment and describe three levels of achievement. The allocation of marks must be clearly indicated on the rubric.

(30)**QUESTION 5**

Discuss any five precautions which you would take in order to prevent accidents and/or injuries in the Natural Sciences laboratory.

(15)**TOTAL: 100**

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