

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER December 2015: BED I PRIMARY

COURSE NUMBER: PED121

COURSE NAME: SKILLS FOR TEACHING SCIENCE PRACTICALS

TIME ALLOWED: 3 HOURS

- INSTRUCTIONS:
1. THIS PAPER HAS SIX QUESTIONS. QUESTION 1 IS COMPULSORY.
 2. ANSWER QUESTION 1 AND ANY **THREE** OTHER QUESTIONS.
 3. YOU WILL ANSWER A TOTAL OF **FOUR** QUESTIONS. EACH QUESTION IS WORTH 25 MARKS.
 4. DOCUMENTS REFERRED TO IN SOME OF THE QUESTIONS ARE ATTACHED. IF YOU DO NOT FIND THEM, ASK FOR THEM.
 5. ANY PIECE OF WRITTEN WORK WHICH IS NOT FOR MARKING PURPOSES MUST BE CROSSED OUT CLEARLY.

THIS PAPER MUST NOT BE OPENED UNTIL PERMISSION IS GIVEN BY THE
INVIGILATOR

Answer **question 1** and any **three** other questions from this paper.

Question 1 This question is compulsory.

a. Define the following scientific processes:

- i. Observing
- ii. Inferring
- iii. Predicting. (12)

b. Label each of the following teaching methods as 'A - mainly used in teaching science' or 'B - used for teaching any subject'. Write the letter corresponding to your answer only against each method.

- i. Lecture
- ii. Demonstration
- iii. Experimenting
- iv. Discovery
- v. Problem solving
- vi. excursions (6)

c. Justify the use of problem solving teaching method in science lessons (6)

Total

25 Marks

Question 2

a. Describe **three** roles of the science teacher in the primary school (9)

b. In **four** points, explain how science teachers' responsibilities differ from those of other teachers. (16)

Total

25 Marks

Question 3

Describe

a. **Five** teaching materials of your choice showing how they are used in a science practical lesson (10)

b. Supposing you are asked to equip a laboratory with teaching materials, what

would you do? (10)

c. Why teaching materials are important (5)

Question 4

a. Outline **three** laboratory rules and use this to explain why it is important to have laboratory rules in science laboratories. (15)

b. Supposing one of your students swallowed a dilute hydrochloric acid, what should you do? (10)

Total

25 Marks

Question 5

a) Write an activity that you would use to help learner develop skills such as observing, inferring, predicting measuring classifying and experimenting (18)

b) Describe how you would arrange a demonstration in a lesson involving heating lesson.

Total

25 Marks

Question 6

a. Describe **five** tools for assessing practicals. (15)

b. Discuss **two** essential practical skill developed during a practical lesson (10)

Total

25 Marks