

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER December 2017: B ED 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**

- a. Define the following attitudes:
- i. Accuracy
  - ii. Open mindedness (6)
- b. Define each of the following teaching methods:
- i. Lecture
  - ii. Demonstration
  - iii. Discovery (6)
- c. Write **one** structural feature of a laboratory that is meant for each of the following purposes
- i. Storage
  - ii. Fire outbreak
  - iii. Workspace (9)
- d. Explain a situation that would make you allow student to run in the laboratory (4)

**Total 25 Marks**

**Question 2**

Discuss the **five** characteristics of a good teacher

**Total 25 Marks**

**Question 3**

- a. Outline **five** precautions you would put in place while demonstrating an experiment involving heat. (15)
- b. ~~What~~ **What** first aid procedures would you give to a learner who cut him/herself with a broken glass in the laboratory? (10)

**Question 4**

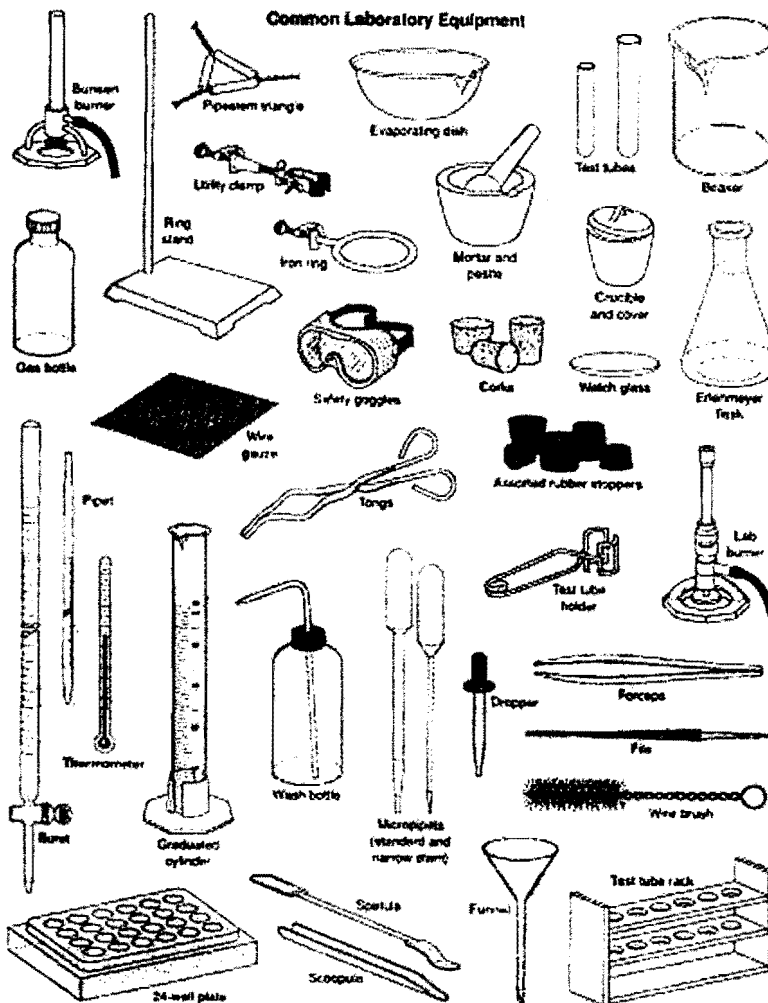
- a. Why is it important to have laboratory rules? (10)
- b. Outline **five** laboratory rules. (15)

**Total**

**25 Marks**

**Question 5**

- a) Supposing you are running a practical lesson on ‘magnets’, write an activity on the that you would use to help learner’s develop skills such as observing, predicting and classifying. (15)
- b) Select **five** apparatus from the one in Fig 1 below and describe how you would use it for an experiment on the difference between melting and dissolving.



(10)

**Total**

**25 Marks**

**Question 6**

- a. Describe **three** types of fire that can happen in the laboratory showing how each is caused and how each should be? (15)
- b. Using the fire triangle, explain the use of carbon dioxide in extinguishing a laboratory fire. (10)

**Total**

**25 Marks**