

NAMIBIA SENIOR SECONDARY CERTIFICATE

PHYSICAL SCIENCE HIGHER LEVEL

8322/3

PAPER 3 Practical Test

2017

CONFIDENTIAL INSTRUCTIONS TO SUBJECT TEACHERS

Great care should be taken to ensure that any confidential information given does not reach the candidates either directly or indirectly.

This document consists of **5** printed pages and **3** blank pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

Instructions for the Physical Science Practical test Invigilator

A Assistance to candidates

The purpose of the Physical Science practical test is to assess the candidates' ability to apply their skills related to practical work. This is done by requesting the candidates to perform simple experiments in the laboratory. Therefore, the candidates' ability to do practical work should not be hindered by the failure of apparatus. In order to overcome difficulties that candidates might experience during the practical test, the invigilator should (or allow the Physical Science teacher to) assist candidates in cases where equipment is malfunctioning or materials are not giving the expected results. Teachers should test the equipment like Bunsen burners regularly in advance.

The following regulations must be strictly adhered to.

- No assistance may be announced to the whole class.
- A candidate who is unable to proceed and require assistance must inform the invigilator and state the difficulty.
- A report must be written of any assistance given to a candidate, with the Candidate Name and Candidate Number.

B Number of sets of apparatus

Each work station should have enough equipment for one candidate at the beginning of each practical session. Candidates are not allowed to share equipment unless stated differently in the equipment list. It is advisable to have a few spare sets to avoid candidates from being delayed due to disfunctional equipment.

The order in which a candidate attempts the questions is unimportant.

(For further instruction, see attached brief Guide of Invigilator's instructions)

Chemistry

Each candidate should be provided with the following:

- 1 × 50 cm³ measuring cylinder
- 1 × 10 cm³ measuring cylinder
- A Bunsen burner
- A tripod and a gauze
- One 250 cm³ conical (Erlenmeyer) flask
- 250 cm³ of an aqueous solution of sodium thiosulfate, labelled as such (10 g/dm³ of solution)
- 100 cm³ of 2 mol/dm³ hydrochloric acid, labelled 'hydrochloric acid for question 1'
- A stop-clock or timer which can measure to the nearest second (candidates may use their own watches if they are suitable)
- Access to water and distilled water (2 liter per learner)
- A wash bottle
- A thermometer, 0-110°C

Please Note: 50 cm³ of sodium thiosulfate solution + 10 cm³ of hydrochloric acid should take approximately 120 seconds to produce sufficient precipitate to obscure a page of printed text

Physics

Each candidate should be provided with the following:

- a voltmeter capable of reading up to 5 volts.
- an ammeter capable of reading up to 5 amperes.
- a cell holder for three cells.
- 3 x 1.5 batteries
- 3 x 4.8 V light bulb (1 is compulsory, two for spares) and lamp holder.
- a 1 metre length of an uncoated thin copper wire approximate 0.35 mm diameter.
- a switch
- 6 connecting wires (3 black and 3 red).
- 1 spare graph paper

Please Note: The circuit to be used should be made up ready for the candidates.

REPORT FORM
Republic of Namibia
NAMIBIA SENIOR SECONDARY CERTIFICATE

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Question Paper & Examination Security Declaration

Region.....Date.....

Centre Number.....Centre Name

Principal (full name, print).....

Head of Examination Centre (full name, print).....

Hereby it is certified that this examination was conducted under appropriate measures and conditions as stipulated in the 'Rules & Regulations for the NSSC Examinations'.

Attached are the following details;

1 Subjects Teacher's Results

*Please submit details of the readings obtained in **Question 1** and **Question 2** on a spare copy of the question paper clearly marked '**Subject Teacher's Results**' and showing the Centre Number.*

*It is essential that each packet of candidates' scripts contains a copy of the applicable '**Subject Teacher's Results**' as the candidates' work cannot be assessed accurately without such information.*

2 The Candidate Numbers of candidates attending each session were:

Please write them in their sitting order.

First Session	Second Session	Third Session

3 The supervisor is required to give details of any difficulties experienced by particular candidates, giving Candidates' Names and Numbers. This should include any reference to:

- any general difficulties encountered in making preparation
- difficulties due to faulty apparatus or materials
- accident to apparatus or materials
- assistance with respect to colour-blindness

Other cases of hardship, e.g. illness, temporary disability, should be reported directly to DNEA through the regional offices on the normal 'Application for Special Consideration' form.

Report on any difficulties experienced by candidates.

[illegible]

Principal's Signature & Date.....

Head of Examination Centre's Signature & Date:.....

Subject Teacher's Full Name:

Subject Teacher's Signature & Date:.....

Supervisor's Signature & Date: _____



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