NAMIBIA SENIOR SECONDARY CERTIFICATE

PHYSICAL SCIENCE HIGHER LEVEL

8322/3

PAPER 3 Practical Test

2020

INSTRUCTIONS TO SUBJECT TEACHERS



This document consists of 6 printed pages and 2 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)

Question 1: Physics

Each candidate should be provided with the following:

- 1 × retort stand
- 1 × boss head
- 1 × clamp to be fastened in the boss head, and to hang the spring on
- 1 × spring, of size 22 mm x 15 mm diameter with 2 loops overall length
 50 mm
- 1 × 100 g mass hanger.
- 6 × 100 g slotted mass pieces to hang onto the mass hanger
- 1 × metre ruler/ stick with mm and cm scale printed on clearly
- 6 × office elastics bands
- 1 × roll of sellotage
- Scissors and coloured card to cut a point

Question 2: Chemistry

Each candidate should be provided with the following:

- Four protective latex gloves
- Access to cleaning tissues kitchen paper
- Protective laboratory coat
- Protective goggles
- Dust cap for the nose
- Small roll of tear off sellotage
- Permanent marker pen and one sheet of pastel colour (pale blue, yellow or pink) A4 copy paper
- Scissors
- 1× test tube rack
- 9× test tubes suitable for heating, test tube pegs/ tongs
- Heating source/ gas burner/ Bunsen or spirit burner
- Three small reagent bottles / test tubes / petri-dish with lid, labelled A,
 D and E
- A should contain 50 g of Copper (II) sulfate solid
- D should contain 50 g Ammonium chloride (crystals), solid.
- E should contain 50 g dry pool acid, solid.
- A water wash bottle containing 250 ml distilled water
- Access to three red litmus papers, three blue litmus paper, 1 small ball of cotton wool
- Cleaning cloth / kitchen towel
- Waste basin
- 1× Spatula
- 1× test tube stopper
- Small quantity of silver nitrate (test) solution, aqueous ammonia test solution

8322/3/20

• 2 × Dropping pipettes, one for each test solution

Please note that candidates must not be told the names of the compounds in the labelled containers.

REPORT FORM Republic of Namibia NAMIBIA SENIOR SECONDARY CERTIFICATE

/3

Question Paper & Examination Security Declaration Region	Ή	SICAL SCIENCE	HIGH	ER LEVEL	832		
Region	ΑP	ER 3 Practical Test					
Centre Number	Qu	estion Paper & Exar	nination	Security Declaration			
Principal (full name, print)	Re	gion	gionDate				
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.	Се	ntre Number		Centre Name			
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First Session Second Session Third Session				_			
		First Session		Second Session	Third Session		

- 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.
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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