

**NAMIBIA SENIOR SECONDARY CERTIFICATE**

**DEVELOPMENT STUDIES ORDINARY LEVEL**

**4331/3**

PAPER 3

1 hour 45 minutes

Marks 50

**2018**

Additional Material: Answer Book

**INSTRUCTIONS AND INFORMATION TO CANDIDATES**

- Write your answers in the Answer Book provided.
- Write your Centre Number, Candidate Number and Name in the spaces on the Answer Book.
- Write in dark blue or black pen.
- Do not use correction fluid.
  
- Answer **all** questions.
- Answer each question on a separate page.
  
- The number of marks is given in brackets [ ] at the end of each question or part question.

This document consists of 4 printed pages.



Republic of Namibia

**MINISTRY OF EDUCATION, ARTS AND CULTURE**

## SECTION A

- 1 Fig. 1, is a report about the successful development of a crop in Namibia to enhance self sufficiency in food production.

For the first time a National Mahangu Consultative Forum (NMCF) was held on 2 September 2011 at Ekulo Secondary School, Omuthiya in the Oshikoto region.

### Mahangu Product Development

The National Product Development Committee (NPDC) was established and tasked to do research and develop products from indigenous crops/plants, including mahangu. Products from mahangu were developed and their processing costs, acceptability and demand were also determined.



Research established that mahangu is highly nutritious, gluten free and does not form acid, it is soothing and easy to digest, making it a viable commodity and highly marketable. NPDC, in partnership with GB Mahangu Enterprises based in Rehoboth, has taken the opportunity to develop and produce several types of cookies from mahangu flour.

A variety of mahangu cookies was developed: mahangu cookies with hazelnuts, mahangu biscuits with wheat, mahangu oatmeal cookies and mahangu crackers. These products were displayed at the Ongwediva Trade Fair and the Windhoek Agricultural Show for consumer acceptance testing.

The aims of the NMCF are to

- highlight successes and challenges since the Mahangu Producers and Millers conference held in Oshakati in 2010.
- provide an opportunity to discuss and elaborate thoroughly on critical issues which could be implemented for improving mahangu production and marketing.

(Namibian Agronomic Board Annual Report, 1 April 2011-31 March 2012.)

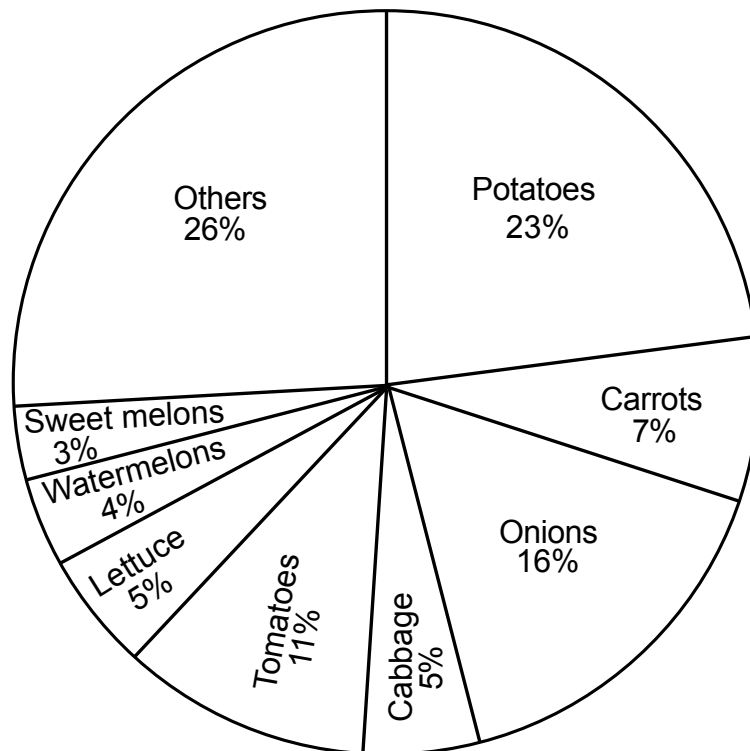
**Fig. 1**

- (a) (i) In your own words explain what is meant by *research*. [2]
- (ii) Where in Namibia is the GB Mahangu Enterprises based? [1]
- (iii) Use your own words to explain the aims of the NMCF. [2]
- (iv) According to the source, was the development of the products achieved? Use some evidence to support your answer. [2]

- (b) (i) Suggest why the use of a picture or photograph was a suitable method to show the product shown in Fig.1. [2]
- (ii) What are the disadvantages of secondary data in research? [3]
- (c) In many developing countries most people are small scale farmers. Suggest ways in which the government can help to make small scale farmers more productive. [4]
- (d) Imagine you are carrying out a research enquiry by interviewing farmers about food production in your local area or a small part of your country. Describe difficulties which you think you might have experienced. [4]

[20]

- 2 Fig. 2, shows the different types of crops grown at Etunda Irrigation Project.



(NAB Horticulture)

Fig. 2

- (a) (i) Which vegetable occupies the largest percentage of land? [1]
- (ii) What is the total percentage of water melons and sweet melons? [1]
- (iii) Name the method of presentation which was used in Fig. 2. [1]
- (iv) Draw a bar graph using the information in Fig. 2 about the different crops. [6]
- (b) Listed are some problems experienced by the Etunda Irrigation Project in the production of vegetables.  
**shortage of land, lack of skilled labour, weather, shortage of storage facilities, price fluctuations**  
 Choose **three** problems and describe in detail how you will solve each one. [6]

[15]

**SECTION B**

- 3** In your Development Studies Course you carried out a research investigation on a development issue. This question is about your research investigation.
- (a) (i)** Identify the research question **or** hypothesis which you investigated. [1]
- (ii)** Describe the aims of your research investigation. [2]
- (iii)** Write a report on your findings. You should include as much detail as possible including information which you gathered and the recommendations/solutions/implications you made. [8]
- (b)** In your research investigation you may have identified problems faced by the people in the area which you studied.
- (i)** Suggest how you would solve these problems.
- OR**
- (ii)** Explain how you solved the practical problems which you experienced while you were carrying out your research. [4]
- [15]**