

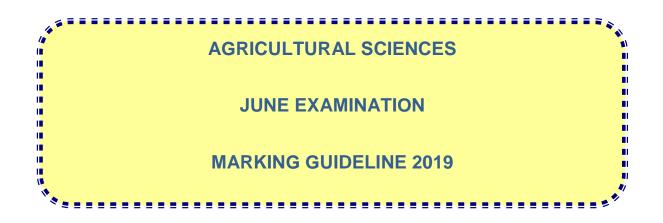
## **Education and Sport Development**

Department of Education and Sport Development Departement van Onderwys en Sport Ontwikkeling Lefapha la Thuto le Tlhabololo ya Metshameko

### **NORTH WEST PROVINCE**

## **PROVINCIAL ASSESSMENT**





**MARKS: 150** 

TIME: 2 Hours 30 Minutes

This marking guideline consists of 8 pages including cover page.



### **SECTION A**

### **QUESTION 1**

1.1

1.1.1  $C \sqrt{1}$ 1.1.2  $B \sqrt{1}$ 1.1.3  $A \sqrt{1}$ 1.1.4  $A \sqrt{1}$ 1.1.5  $B \sqrt{1}$ 1.1.6  $D \sqrt{1}$ 1.1.6  $D \sqrt{1}$ 1.1.7  $A \sqrt{1}$ 1.1.8  $D \sqrt{1}$ 1.1.9  $C \sqrt{1}$ 1.1.9  $D \sqrt{1}$ 

### 1.2

- 1.2.1 BOTH A AND  $B\sqrt{\sqrt{12.2}}$  A ONLY $\sqrt{\sqrt{12}}$
- 1.2.3 BONLY $\sqrt{1}$
- 1.2.4 A ONLY  $\sqrt{1}$
- 1.2.5 NONE  $\sqrt{\sqrt{}}$

### 1.3

- 1.3.1 Processing/ Value adding  $\sqrt{\sqrt{}}$
- 1.3.2 Urbanization/ Rural-urban exodus  $\sqrt{\sqrt{}}$
- 1.3.3 Population dynamics  $\sqrt{\sqrt{}}$
- 1.3.4 Broilers $\sqrt{\sqrt{}}$
- 1.3.5 Nguni breed $\sqrt{\sqrt{}}$

### 1.4

- 1.4.1 Output  $\sqrt{}$
- 1.4.2 Veld managemen t $\sqrt{}$
- 1.4.3 Parasitism  $\sqrt{}$
- 1.4.4 Draught horse breed  $\sqrt{}$
- 1.4.5 Free range system  $\sqrt{}$

(1 X 5) = [5]

(2X10) = [20]

(2X 5) = [10]

(2 X 5) =[10]

[SUB TOTAL: SECTION A = 45 MARKS]

(2x3=6)

(1x7=7)

[10]

(1)

### **SECTION B**

### QUESTION 2: AGRO- ECOLOGY AND AGRI-INDUSTRY

2.1

### 2.1.1 Farming practices which may cause overgrazing

- Overstocking√√
- Continuous grazing  $\sqrt{\sqrt{}}$
- Selective grazing.  $\sqrt[4]{}$
- 2.1.2 Farming practices which a farmer may apply to keep the veld in a good condition.
  - Camps√
  - Optimum stocking density/rate (-correct animal : land ratio)  $\sqrt{}$
  - Rotational grazing and resting  $\sqrt{}$
  - Zero grazing.  $\sqrt{(1x4=4)}$
  - [10]

### 2.2

### 2.2.1 The seven biomes of South Africa.

- ➤ A-Succulent Karoo / Mediterranean vegetation √
- ➢ B- Nama Karoo / Semi-desert- Grassland√
- > C-Grassland  $\sqrt{}$
- ▶ D- Savannah√
- ➢ E- Fynbos√
- F- Forest√
- ➤ G- Thicket. √
- 2.2.2 Biome A and E rainfall season
  - Winter (1)
- **2.2.3** Abiotic factors that determine the type of plants in a biome.
  - Climate [-rainfall and temperature ]  $\sqrt{}$
  - Soil/Edaphic factor $\sqrt{}$
  - Topography/ Relief / Terrain√
  - Slope / Aspect / Orientation.  $\sqrt{}$  any two (1x2=2)

### 2.3 Carbon cycle

### 2.3.1 Food components in which Carbon is an important element/atom

- Carbohydrates√
- Fats√
- Proteins $\sqrt{}$  (3)

2.3.2

Photosynthesis√

3

~ ~ ~

|            |  |            |         |     | [35]              |
|------------|--|------------|---------|-----|-------------------|
|            | c. Milk  |            |         |     | (1)<br><b>[9]</b> |
|            | b. Wheat   |            |         |     | (1)               |
|            | a. Grapes  |            |         |     | (1)               |
| Raw        | materials used to produce the fo                                       | od listed. |         |     |                   |
| _          | • Smoking $$   |            | (any 3) | (3) |                   |
|            | • Freezing √   |            |         |     |                   |
|            | • Canning $$   |            |         |     |                   |
|            | • Drying $$  |            |         |     |                   |
| 2.4.2      | Ways of food processing.   |            |         |     |                   |
|            | • Provide foreign exchange. $$   |            | (Any 3  | 3)  | (3)               |
|            | <ul> <li>Provide economic stability√.</li> </ul>                       |            |         |     |                   |
|            | • Job creation. $$   |            |         |     |                   |
|            | <ul> <li>Provide raw material. √</li> </ul>                            |            |         |     |                   |
| 2.4. 2.4.1 | <ul> <li>Importance of agriculture</li> <li>Provide food. √</li> </ul> |            |         |     |                   |
|            |  |            |         |     | [6]               |
|            | <ul> <li>Fossilisation√</li> <li>Combustion√</li> </ul>                | (Any 2)    |         |     | (2)               |
|            | • Decomposition $$   |            |         |     |                   |
|            | • Respiration $$   |            |         |     |                   |
| 2.3.3      |  |            |         |     |                   |

### **QUESTION 3**

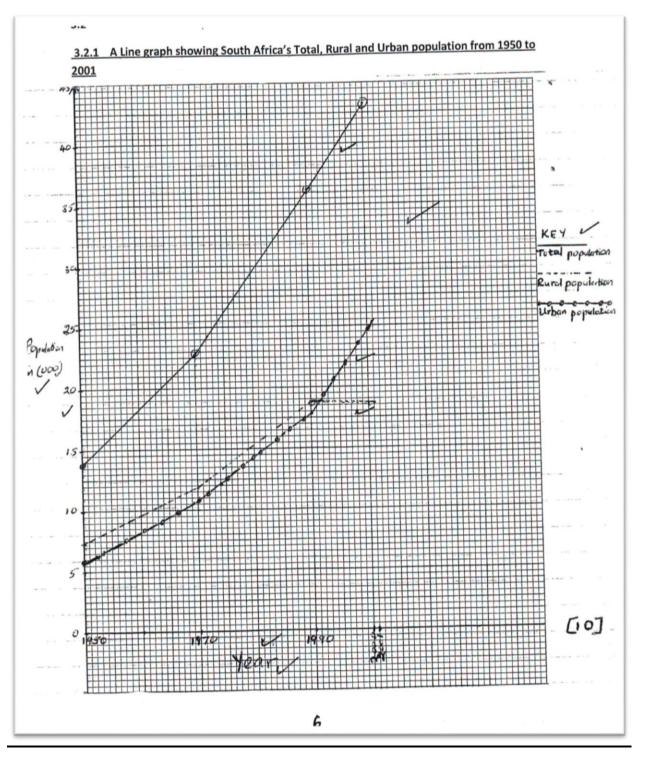
### 3.1

### 3.1.1 The negative effect of HIV/AIDS on the Agricultural industry.

- Loss of indigenous knowledge about food production which has to be passed on to the next generation  $\sqrt{\sqrt{}}$ .
- Loss of skills√√.

[2x5=10]





### CHECKLIST

- Correct heading $\sqrt{}$ .
- Y- axis correctly calibrated and labelled  $\sqrt{}$
- Correct units  $\sqrt{}$

# Demo NW/JUNE/AGRSC/ EMIS/6\*\*\*\*\*\*

5

- Correct plotting  $\sqrt{\sqrt{\sqrt{1}}}$ ٠
- Line graph√
- Key √
- Accuracy  $\sqrt{}$

### 3.2.2

(a)No  $\sqrt{}$  -there is a decline in rural population between 1990 and 2001 $\sqrt{}$ .

- (b) Rural population.  $\sqrt{}$
- (c) After 1990. √

### Reasons for an increase in urban population after 1990. (d)

(2)

- Unbanning of South African black political parties, apartheid was dismantled; this removed the restriction of movements.  $\sqrt{}$
- After 1994—majority of the people (Blacks) gained power and so bought homes/houses in cities.  $\sqrt{}$
- People were empowered this lead to the emergency of the middle class.  $\sqrt{}$
- After the lifting of sanctions, South Africa become part of the global world and so, more tourist/Job seekers/foreign investors settled in urban areas.  $\sqrt{}$

#### NB. Any sensible answer/ related to post-apartheid era. **Any 3** (3)

[17]

### 3.3.1 Types of Land tenure system of South Africa.

- Communal land.  $\sqrt{}$
- State land [State hold]. √
- Permission to Occupy [PTO]. $\sqrt{}$
- Leasehold/Freehold/ Title deed/ Private ownership.  $\sqrt{}$
- Labour tenancy [tied] occupation.√

### 3.3.2 The three [3] main Land Reforms

- Land restitution.  $\sqrt{}$
- Land redistribution.  $\sqrt{}$
- Tenure reform. $\sqrt{}$

### **QUESTION 4**

- 4.1.
- 4.1.1. Brahman√
- 4.1.2. African type (Bos indicus)  $\sqrt{}$

### Reasons

- adapted for African conditions/ pigmentation on skin area  $\sqrt{}$
- Large loose skin area for cooking  $\sqrt{}$
- No fur on skin $\sqrt{}$
- Large hump/ large body size  $\sqrt{}$

(Any One relevant reasons) (1 + 1 = 2)

### Demo.

NW/JUNE/AGRSC/ EMIS/6\*\*\*\*

(1x3=3)

(1)

(1)

[8]

[35]

[1x5=5]

(1)

6

### 4.1.3. Male/ bull $\sqrt{}$

### Supporting reasons

- Heavy animal/ large body/ prominent muscle formation  $\sqrt{}$
- Large head√
- prominent male reproductive organs (Scrotum /testicles) $\sqrt{}$

(Any three characteristics) (1 + 3 = 4) [7]

### 4.2 **Comparison:**

### 4.2.1 Between beef cattle and dairy cattle

| Beef cattle   | Dairy cattle   |  |  |  |
|---|--|--|--|--|
| <ul> <li>Beef cattle have been bred for their high meat production√</li> <li>Long productive lives and resistance to disease√</li> <li>Block shaped√</li> </ul> | <ul> <li>Dairy cattle have been bred for their<br/>high milk yield√</li> <li>They have high butter-fat<br/>percentage√</li> <li>Wedge shaped√</li> </ul> |  |  |  |
| Award only One comparison: 1+1=2  |  |  |  |  |

| Mutton sheep                             | Wool sheep                         |
|--|------------------------------------|
| Mutton sheep are bred for their flavour- | Wool sheep are bred for their      |
| some meat. $$                            | wool quality and easy care $$      |
| Have more frequent lambing ability and   | • Also bred for the combination of |
| hardiness in harsh environment. $$       | meat and wool $$                   |

Award only One comparison: 1+1=2 [4]

### 4.3 **Characteristics of wool fibre that adds value in the textile industry**

- Unique fibre characteristics of wool  $\sqrt{}$
- Good staple length and strength  $\sqrt{}$
- Natural coloured fibre  $\sqrt{}$
- More crimp (natural waviness) per unit length.  $\sqrt{}$

Any 3 [3]

### 4.4

|               | Main product          | By-product                                |  |
|---------------|-----------------------|---|--|
| 4.4.1 Pig     | Pork/ Meat√           | Glue, Brushes, bone-meal $\sqrt{}$        |  |
| 4.4.2 Poultry | Eggs & Meat√          | Dusters, Cushion/pillow fillers $\sqrt{}$ |  |
|               | Main product 1        | 3 x 2 = 6 [6]                             |  |
|               | Any two By products 2 | -   |  |

Any two By-products 2

4.5 The purpose of breeding game animals

NW/JUNE/AGRSC/ EMIS/6\*\*\*\*\*\* 7

(2)

(2)

[3]

Mark any 2

- Tourism√
- Meat√
- Hides√
- Trophy hunting√ (any 3)

### 4.6 Dorper sheep

4.6.1 The 2 breeds that were cross-bred to develop the Dorper sheep Dorset Horn  $\!$  and

• Blackhead Persian ewe. $\sqrt{}$ 

### 4.6.2 Characteristics of Dorper ewes

- Are highly fertile (they begin breeding at 7 months old). $\sqrt{}$
- Can lamb three times in two years if conditions are favourable. $\checkmark$
- Have well-developed udders  $\sqrt{}$
- Produce fast growing lambs (they normally have twins)  $\sqrt{}$  and
- Produce lambs with a low mortality rate. $\sqrt{}$

### 4.7 Questions on pig breeds

- 4.7.1 Pork√
- 4.7.2 Bacon (streaky or side) $\sqrt{}$
- 4.7.3 Ham √`
- 4.7.4 Gammon √
- 4.7.5 Porkers  $\sqrt{}$

(1x5=5)

### 4.8 **Differences between a Saanen goat's milk and cow's milk**.

- Have finer globules of cream than cow's milk  $\sqrt{}$
- Has lower levels of lactose than cow's milk  $\sqrt{}$
- Is sweeter, smoother and creamier than cow's milk

[35]

### [TOTAL =150]