



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

DATA MANAGEMENT: FARMING N6

26 NOVEMBER 2019

This marking guideline consists of 13 pages.

SECTION A**QUESTION 1**

- | | | | | |
|-----|---|---|-------------|-------------|
| 1.1 | 1.1.1 | D | | |
| | 1.1.2 | B | | |
| | 1.1.3 | A | | |
| | 1.1.4 | D | | |
| | 1.1.5 | D | | |
| | 1.1.6 | B | | |
| | 1.1.7 | B | | |
| | 1.1.8 | D | | |
| | 1.1.9 | D | | |
| | 1.1.10 | C | | |
| | | | (10 × 2) | (20) |
| 1.2 | 1.2.1 | E | | |
| | 1.2.2 | C | | |
| | 1.2.3 | G | | |
| | 1.2.4 | A | | |
| | 1.2.5 | I | | |
| | 1.2.6 | B | | |
| | 1.2.7 | D | | |
| | | | (7 × 2) | (14) |
| 1.3 | • Supervision | | | |
| | • Passwords | | | |
| | • Rotation of jobs | | | |
| | • Physical access control | | | |
| | • System logs | | | |
| | • Separation of duties | | | |
| | • Computer staff must take leave when it is due | | (Any 5 × 2) | (10) |
| | | | | [44] |

QUESTION 2

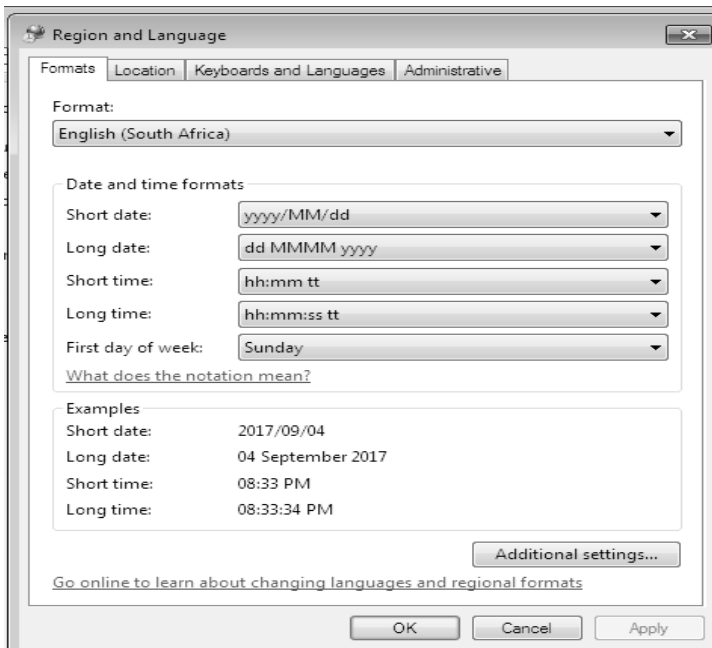
- 2.1 2.1.1 Where the writing/saving of files is done and the files will be read when retrieving.
- 2.1.2 It writes on the disk/platter when saving, it reads the saved data when retrieving.
- 2.1.3 Drives the disk or platter so that it rotates at a high speed.
- 2.1.4 Controls the functioning of a hard disk. (4 × 2) (8)
- 2.2 2.2.1 Involves the structuring of individual disks into tracks to form cylinders and dividing them into sectors. Damaged sectors are marked on a reserved area on the disk. The tracks are numbered from 0 (outermost) to 1023.
- 2.2.2 Dividing the hard disk into parts and make them available to the operating system. Partitioning is called segmenting and it is done by the supplier.
- 2.2.3 Prepare the hard disk in a format that enables windows to write and retrieve data from it. Three important housekeeping areas are the Root folder, File Allocation Table and Boot record. (3 × 5) (15)
- 2.3
 - Larger storage capacity
 - Stores and retrieves data faster
 - Not damaged easily
 - Does not need to be placed in the computer every time (Any 3 × 1) (3)
- 2.4 The active document that one is working on is temporary saved on RAM.✓
When the file is saved, it is written by the read/write head on the disk or platter.✓✓ When retrieving or opening the file saved on the disk, the read/write head reads the file and the file is loaded on RAM where editing can be done.✓✓ (5)

[31]

QUESTION 3

EXAM NO. ✓

QUESTION 3 ✓



CORRECT WINDOW ✓✓
PRINT SCREEN ✓

[5]

TOTAL SECTION A: 80

SECTION B: PRACTICAL (SPREADSHEET)

QUESTION 4

4.1

EXAM NO ✓ QUESTION NO.

	A	B	C	D	E	F	G	H	I	J	K
1	AGRI-PROCESSORS										
2	WORKERS SALARIES FOR 2017										
	WORKER	AGE	DEPARTMENT	SEPT-DEC SALARY				INCENTIVE	BONUS	TOTAL INCOME	INCOME TAX DEDUCTIONS
3											
4				SEPT	OCT	NOV	DEC				
5	LISA	22	Procurement	15500	16000	15990	15600				
6	JOHNS	45	Maintenance	16000	16200	16000	15900				
7	LAMECK	35	Transport	14000	14500	14900	15100				
8	PRUDENCE	29	Finance	25200	23035	21900	20100				
9	GILBERT	52	Procurement	18200	18000	18620	19000				
10	WILLARD	41	Transport	15590	14000	14200	15150				
11			Income Tax:	15%							
12	TOTAL										
13	AVERAGE										
14	LOWEST TOTAL INCOME										
15				INCENTIVE	100	200	300	500	600		
16				DEC-SALARY	15000	16000	17000	19000	20000		

FIGURE 1

(6)

ACCURACY ✓✓

PRINT SINGLE LANDSCAPE ✓
 WITHOUT ROW, COLUMN
 HEADINGS AND GRIDLINES ✓

4.2

INSERTING
EMPTY
ROWS ✓

BOLD ✓ CEN
TRE ✓ COLU
MN
HEADINGS

SORT
DESCENDIN
G
ACCORDIN
G TO AGE ✓

AGRI-PROCESSORS										
<i>WORKERS SALARIES FOR 2017</i>										
WORKER	AGE	DEPARTMENT	SEPT-DEC SALARY				INCENTIVE	BONUS	TOTAL INCOME	
			SEPT	OCT	NOV	DEC				
LISA	22	Procurement	R 15 500.00	R 16 000.00	R 15 990.00	R 15 600.00	R 100.00	R 0.00	R 63 190.00	R 9 478.50
JOHNS	45	Maintenance	R 16 000.00	R 16 200.00	R 16 000.00	R 15 900.00	R 100.00	R 0.00	R 64 200.00	R 9 630.00
LAMECK	35	Transport	R 14 000.00	R 14 500.00	R 14 900.00	R 15 100.00	R 100.00	R 0.00	R 58 600.00	R 8 790.00
PRUDENCE	29	Finance	R 25 200.00	R 23 035.00	R 21 900.00	R 20 100.00	R 500.00	R 10 050.00	R 100 785.00	R 15 117.75
GILBERT	52	Procurement	R 18 200.00	R 18 000.00	R 18 620.00	R 19 000.00	R 400.00	R 9 500.00	R 83 720.00	
WILLARD	41	Transport	R 15 590.00	R 14 000.00	R 14 200.00	R 15 150.00	R 100.00	R 0.00	R 59 040.00	
		Income Tax:	15%							
TOTAL			R 104 490.00	R 101 735.00	R 101 610.00	R 100 850.00	R 1 300.00	R 19 550.00	R 429 535.00	
AVERAGE			R 17 415.00	R 16 955.83	R 16 935.00	R 16 808.33	R 216.67	R 3 258.33	R 71 589.17	
LOWEST TOTAL INCOME									R 58 600.00	
			INCENTIVE	R 15 000.00	R 16 000.00	R 17 000.00	R 19 000.00	R 20 000.00		
			DEC-SALARY	R 100.00	R 200.00	R 300.00	R 400.00	R 500.00		

1.2

M&C ✓, ALBERTUS EXTRA BOLD 16PT ✓, UNDERLINE ✓

ITALIC ✓, UNDERLINE ✓

TEXTWRAP
COLUMNS ✓

HORIZONTAL
AL ✓,
VERTICAL ✓
LINES

CALCULATIONS: A ✓ ✓, B ✓ ✓, C ✓ ✓, D ✓ ✓, E ✓ ✓, F ✓ ✓, G ✓ ✓

R&2DECIMALS ✓ INTEGERS ✓

BOLD ✓ CENTRE ✓ ANSWERS

LANDCAPE ✓ WITH ROW AND COLUMN HEADINGS ✓ 2
PAGES ✓

4.3

CHANGE QUESTION TO 1.3✓

AGRI-PROCESSORS								
WORKER	SEPT-DEC SALARY				INCENTIVE	BONUS	TOTAL INCOME	INCOME TAX DEDUCTIONS
	SEPT	OCT	NOV	DEC				
LISA	15500	16000	15990	15600	=HLOOKUP (G7, \$E\$18: \$I\$19, 2)	=IF (H7>=200, 50%*G7, 0)	=SUM (D7: I7)	=\$D\$13*J7
JOHNS	16000	16200	16000	15900	=HLOOKUP (G8, \$E\$18: \$I\$19, 2)	=IF (H8>=200, 50%*G8, 0)	=SUM (D8: I8)	=\$D\$13*J8
LAMECK	14000	14500	14900	15100	=HLOOKUP (G9, \$E\$18: \$I\$19, 2)	=IF (H9>=200, 50%*G9, 0)	=SUM (D9: I9)	=\$D\$13*J9
PRUDENCE	25200	23035	21900	20100	=HLOOKUP (G10, \$E\$18: \$I\$19, 2)	=IF (H10>=200, 50%*G10, 0)	=SUM (D10: I10)	=\$D\$13*J10
GILBERT	18200	18000	18620	19000	=HLOOKUP (G11, \$E\$18: \$I\$19, 2)	=IF (H11>=200, 50%*G11, 0)	=SUM (D11: I11)	=\$D\$13*J11
WILLARD	15590	14000	14200	15150	=HLOOKUP (G12, \$E\$18: \$I\$19, 2)	=IF (H12>=200, 50%*G12, 0)	=SUM (D12: I12)	=\$D\$13*J12
TOTAL	=SUM (D7: D12)	=SUM (E7: E12)	=SUM (F7: F12)	=SUM (G7: G12)	=SUM (H7: H12)	=SUM (I7: I12)	=SUM (J7: J12)	=SUM (K7: K12)
AVERAGE	=AVERAGE (D7: D12)	=AVERAGE (E7: E12)	=AVERAGE (F7: F12)	=AVERAGE (G7: G12)	=AVERAGE (H7: H12)	=AVERAGE (I7: I12)	=AVERAGE (J7: J12)	=AVERAGE (K7: K12)
LOWEST TOTAL INCOME							=MIN (J7: J12)	
FORMULAE: A✓, B✓, C✓, D✓, E✓, F✓, G✓				17000	19000	20000		
				300	400	500		

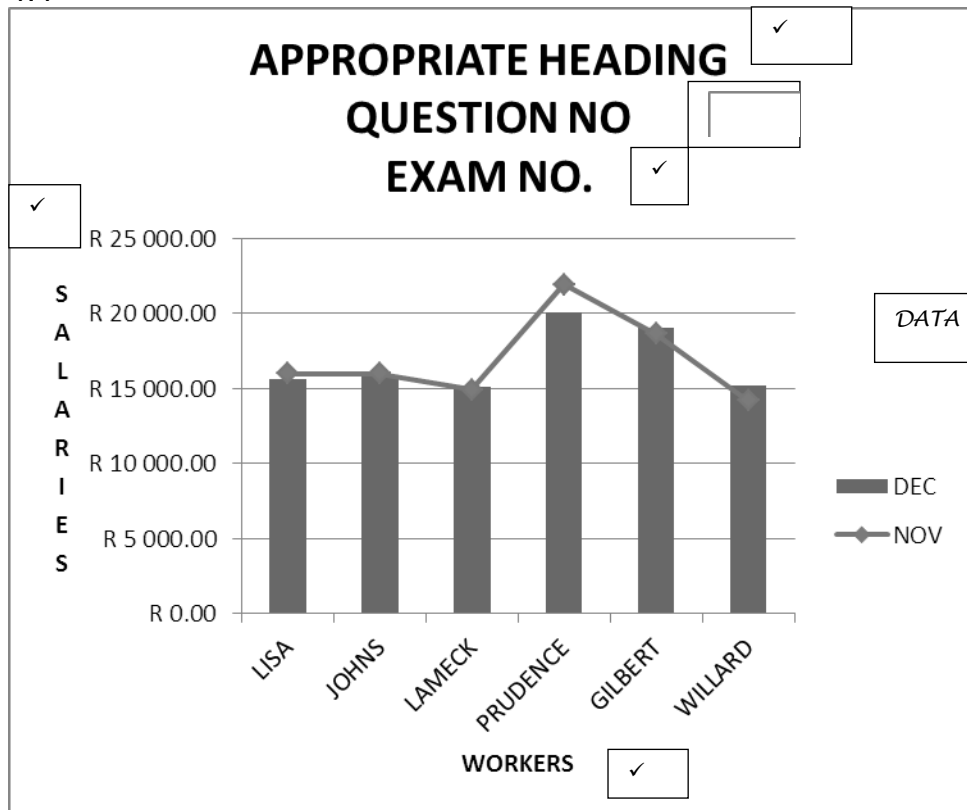
HIDE COLUMNS: B, C✓

ADJUST COLUMNS ✓

PRINT: L/SCAPE✓. WITHOUT ROW. COLUMN HEADINGS✓. NO GRIDLINES✓. 2

(14)

4.4



CORRECT GRAPH✓, NOV SAL-LINE✓, DEC SAL-COLUMN✓

DATA LABELS ON COLUMNS✓

LEGENDS RIGHT SIDE✓

LANDSCAPE✓
NEW SHEET ✓

(12)
[65]

FOOD SECURITY

BOLD✓, UNDERLINE✓, ARIAL BLACK✓, 16PT✓

What does food security mean?

You must have enough

wholesome food to

cover your dietary

needs in order to lead

an active, healthy life.

key is availability, supply

and quality (food must be

nutritious as well as safe,

which relates to handling,

cleaning, storage and

processing, from 'farm to

fork').



INSERT FLOWER✓, TOP RIGHT
CORNER OF FIRST PAGE✓, HEIGHT
4CM✓, SHADOW OFFSET LEFT✓

FIRST PARAGRAPH:
INDENTION BOTH SIDES✓✓,
DOUBLE-LINE SPACING✓
CENTRED✓

PARAGRAPH
MOVED✓

You can do your bit: grow your own veggies. Or switch to less expensive or no-name brands, shop for specials, use loyalty promotions (PnP Smart Shopper instant savings or cash-back discounts are great options). Buy only to fill your fridge with what you eat, don't waste food.

BOLD✓, ITALIC✓, RIGHT ALIGN✓

How do we compare?

South Africa ranks 47th out of 113 countries in the Economist's 2016 Global Food Security Index. Strengths include availability, high nutritional standards and food safety, favourable agricultural import tariffs and low food loss. On the downside, undernourishment affects 5% of South Africans, with food deprivation statistically at 54kJ per person per day.

So how are households affected?

EXAM NO.

QUESTION 2

2

'South Africa's food security has improved. As a nation we're food secure, but at household level the dynamics are different: as soon as food prices shoot up, affordability becomes a problem', says Wandile Sihlobo, head of economic and agribusiness intelligence at the Agricultural Business Chamber (Agbiz). Studies show that poor South African families spend up to two-thirds of their monthly income on two food groups out of a possible 12, compared to the wealthiest households, whose diet generally incorporates 10. Ironically, an unbalanced diet due to poverty often leads to obesity because of the empty kilojoules consumed.

What about food prices?

- Prices will drop around the third quarter of 2017 until late April 2018, says Agbiz.
- Food inflation is set to level out at 7,4% this year, down from about 12%.
- 'Why, South Africa is literally swimming in grain,' tweeted Sihlobo, 'as we only need 10.5 million tons to feed our population.'
- 'This huge surplus could earn SA close to R7 billion in exports. And we're expecting the largest soya bean harvest on record, 1.2 million tons.'
- The excellent grain harvest is likely to bring down poultry prices, because feed (maize and soya bean) makes up 80% of the input cost for chicken production.
- However, meat prices will increase as farmers are restocking their cattle herds after the drought led to larger numbers of livestock being slaughtered last year.

BULLETS ✓✓

2
COLUMNS ✓
. VERT
LINE ✓.
BOLD ✓.
UNDERLIN
E ✓.
JUSTIFY ✓

LET'S TALK ABOUT THE DROUGHT...

Most of South Africa experienced good rainfall and good harvests, says Sihlobo. 'But we are worried about the ongoing drought in the Western Cape.' He explains that if rain does not arrive before the end of July, this will adversely affect wheat-related products such as bread and cereals, increasing pressure on struggling farmers.

FOOTER ✓ EXAM NO LEFT, QUES 2
RIGHT ✓

How can we boost food security?

- Agri SA says the state should declare agriculture a 'strategic priority sector'. Funds are needed to 'climate proof' farming by fixing inefficient water systems, planting drought-resistant crops, using shade netting and exploring crop rotation.

QUESTION 5

EXAM NO.

Copyright reserved

Please turn over

QUESTION 3

✓ CORRECT HEADING

NUTRIENTS							
EXAM NO QUEST 3 Query				EXAM NO QUEST 3 REPORT			
NO	FOOD	COST	DATE PURCH	NUTRIENT	AVAILABILIT	EXAM NO	QUESTION 3
1	MAIZE	R 122.50	2016/03/22	Carbs	<input checked="" type="checkbox"/>		
2	SPINACH	R 150.00	2017/03/29	Vitamins	<input checked="" type="checkbox"/>		
3	FISH	R 225.30	2016/02/06	Proteins	<input type="checkbox"/>		
4	POTATO	R 150.20	2014/10/12	Carbs	<input checked="" type="checkbox"/>		
5	MANGO	R 100.00	2014/03/05	Vitamins	<input type="checkbox"/>		
8	BEEF	R 350.00	2015/02/30	Protein	<input checked="" type="checkbox"/>		
9	MILK	R 290.00	2017/08/22	Vitamins	<input checked="" type="checkbox"/>		

COLUMNS ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

LANDSCAPE ✓

TOTAL TABLE: (10)

✓ CORRECT HEADING

NUTRIENTS							
NO	FOOD	COST	DATE PURCH	NUTRIENT	AVAILABILIT	EXAM NO	QUESTION 3
1	MAIZE	R 122.50	2016/03/22	Carbs	<input checked="" type="checkbox"/>		
2	SPINACH	R 150.00	2017/03/29	Vitamins	<input checked="" type="checkbox"/>		
3	FISH	R 225.30	2016/02/06	Proteins	<input type="checkbox"/>		
4	POTATO	R 150.20	2014/10/12	Carbs	<input checked="" type="checkbox"/>		
5	MANGO	R 100.00	2014/03/05	Vitamins	<input type="checkbox"/>		
8	BEEF	R 350.00	2015/02/30	Protein	<input checked="" type="checkbox"/>		
9	MILK	R 290.00	2017/08/22	Vitamins	<input checked="" type="checkbox"/>		

COLUMNS ✓ ✓ ✓ ✓ ✓ ✓ ✓

LANDSCAPE ✓

TOTAL TABLE: (10)

C:\Users\user\Documents\FOOD.accdb
Table: NUTRIENTS

✓ CORRECT INFO

08 September 2017
Page: 1

Columns

Name	Type	Size
NO	Long Integer	4
FOOD	Text	20
COST	Currency	8
DATE PURCHASED	Text	255
NUTRIENT	Text	15
AVAILABILITY	Yes/No	1
EXAM NO	Long Integer	4
QUESTION 3	Text	10

CORRECT
INFO IN
COLUMNS
✓✓✓

PRINT: PORTRAIT ✓

TOTAL
STRUCTURE: (5)

TITLE ✓

EXAM NO QUEST 3 Query

NO	FOOD	COST	DATE PURCH	NUTRIENT	AVAILABILIT	EXAM NO	QUESTION 3
1	MAIZE	R 122.50	2016/03/22	Carbs	<input checked="" type="checkbox"/>		
2	SPINACH	R 150.00	2017/03/29	Vitamins	<input checked="" type="checkbox"/>		
3	FISH	R 225.30	2016/02/06	Proteins	<input type="checkbox"/>		
4	POTATO	R 150.20	2014/10/12	Carbs	<input checked="" type="checkbox"/>		
5	MANGO	R 100.00	2014/03/05	Vitamins	<input type="checkbox"/>		
8	BEEF	R 350.00	2015/02/30	Protein	<input checked="" type="checkbox"/>		
9	MILK	R 290.00	2017/08/22	Vitamins	<input checked="" type="checkbox"/>		
*	(New)				<input type="checkbox"/>		

ALL INFO
CORRECT ✓

PRINT: L/SCAPE ✓

TOTAL
QUERY: (3)

EXAM NO QUEST 3 REPORT				TITLE ✓✓
FOOD	COST DATE PURCHASED		NUTRIENT	
BEEF	R 350.00	2015/02/30	Protein	
FISH	R 225.30	2016/02/06	Proteins	
MILK	R 290.00	2017/08/22	Vitamins	
POTATO	R 150.20	2014/10/12	Carbs	
SPINACH	R 150.00	2017/03/29	Vitamins	
✓✓	✓✓ CALCULATED AVERAGE			

CORRECT HEADINGS ✓

SORT: ALPHABETICALLY ACCORDING TO FOOD COLUMN ✓✓

NO R150 OR LESS ✓

✓✓ CALCULATED AVERAGE

PRINT: PORTRAIT ✓

REPORT TOTAL: (11)

[29]

TOTAL SECTION B: 120
GRAND TOTAL: 200