



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

DATA MANAGEMENT: FARMING N5

9 November 2022

This marking guideline consists of 10 pages.

SECTION A**QUESTION 1**

- 1.1 A
- 1.2 A
- 1.3 D
- 1.4 A
- 1.5 B
- 1.6 A
- 1.7 D
- 1.8 B
- 1.9 B
- 1.10 B

(10 × 2) [20]

QUESTION 2

- 2.1 False
- 2.2 True
- 2.3 True
- 2.4 False
- 2.5 True
- 2.6 True
- 2.7 False
- 2.8 True
- 2.9 True
- 2.10 False

(10 × 2) [20]

QUESTION 3

- 3.1 G
- 3.2 D
- 3.3 H
- 3.4 A
- 3.5 C
- 3.6 B
- 3.7 F
- 3.8 J
- 3.9 E
- 3.10 I

(10 × 1) [10]

QUESTION 4

- 4.1
- Downloading an infected file from the internet
 - Booting the computer from an infected hard disk
 - Inserting an infected disk into the disk drive and opening the files on it
 - Browsing infected webpages
 - Opening an infected e-mail message or attachment
 - Simply using internet
- (Any 5 × 2) (10)
- 4.2
- Click the Advanced button in the Properties dialog box.
 - Select to compress or encrypt the contents. Click OK.
 - A message appears to warn you about changes in the subfolder. Click OK.
 - The compressed file or folder displays blue text within the list.
 - Right-click the compressed file or folder to rename and type the new name.
- (5)
- 4.3
- Make your profile private.
 - Limit the amount of personal information.
 - Do not provide any personal information in chat rooms or public forums.
 - Be wary of strangers.
 - Do not make any bank account details available.
- (Any 5 × 2) (10)
- 4.4
- It serves as a communication link between the user and hardware.
 - It runs other software programs and controls how a program interacts with the user.
 - It coordinates the operations of the entire computer system.
 - It maintains a flow of events.
 - It manages some peripherals.
 - It provides the user with tools to manage disks and folders.
- (Any 5 × 1) (5)
- [30]**

QUESTION 5

- 5.1
- The active document that one is working on is temporary saved on the 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 onto the RAM, where editing can be done.✓✓
- (4)
- 5.2
- Root folder – keeps record of all files on the disk
 - File allocation table – where record is kept of the position where files are stored
 - Boot record – used by Windows to boot the system
- (3 × 2) (6)

- 5.3
- Launch the installed anti-virus program.
 - Click Start.
 - Click Programs.
 - Click on the anti-virus program.
 - Reboot your computer if prompted to do so.
 - Run a system scan.
 - Infected files can now be treated or deleted.

(Any 5 × 2) (10)
[20]

TOTAL SECTION A: 100

WORD PROCESSING**SECTION B: QUESTION 6****FOOD FARMING TECHNOLOGY****Computerised farming
technology**

Computerised farming technology includes moisture sensors, smart irrigation systems, terrain contour mapping and self-driven and GPS – enabled tractors, all of which contribute to improve farming sustainability.

IoT solutions enable farmers to control water troughs and feeders and even management the irrigation system for the pastures. Machines are available that signal when stalls need to be cleaned.

Various types of wearables for cows allow dairy farmers to continuously monitor the health, location and behaviour of all their cows at the same time. The wearables collect information about the animals' temperature, activity, behaviour (feeding, sleeping, lameness, gait) and milk production levels and help farmers keep track of which cows have already been milked. Dairy farmers use the information from the trackers to determine when cows are in heat and ready for insemination and to detect any deviation from the norm. This makes the timely treatment of illness or abnormalities possible, which in turn improves cow health and comfort.

All types of sensors are available to farmers. Drones can be fitted with multispectral sensors that indicate how crops should be watered. The same sensor mounted on a tractor that's fertilizing soil can regulate the application of nitrogen so that the right amount is applied to maintain soil health. In-field moisture sensors in the ground can help farmers create customized irrigation systems for crops and pastures based on soil moisture and temperature. This type of technology can help farmers become more sustainable by managing the level and frequency of irrigation.

Equipment for happy cows

Cows love cow brushes, which stimulate blood circulation by their rotations and movements. According to some farmers, their cows line up for their turn to use this technology. Rotary milking parlours make sanitization of udders efficient and accessible and misting or evaporative systems keep cows cool and prevent heat stress.

MILKSHUTTLE

- Physical ease of work: relieves your back
- 3 big wheels for any terrain
- Strong electric drive
- Exact and simple dosing out of the milk
- Four practical sizes

- 6.1 Exam and question no. on header✓✓
- 6.2 Main heading, Cooper 16pt, right-align✓✓✓
- 6.3 Word art on subheading✓✓✓
- 6.4 Triple border, double line spacing, full justification✓✓✓
- 6.5 Two columns changed to one,✓✓ bullets inserted✓
- 6.6 Zigzag page border✓✓
- 6.7 Page number from 8✓✓

URBAN ALMA PRO

- ☐ Latest technology with a user friend touchscreen
 - ☐ Future proof
 - ☐ Calf health reports round the clock
 - ☐ Only model with a closed loop system
 - ☐ Milk temperature is controlled by 3 sensors
-

QUESTION 7**SPREADSHEET**

	A	B	C	D	E	F	G	H
1	FARMER STALL DECEMBER HOLIDAY							
2	2 STREET AVENUE							
3	MAKHADO							
4								
5	BOOKING FORM FOR THE MONTH OF DECEMBER 2019							
6								
7								
8								
9	NAME	NUMBER OF	DATE	DATE	NUMBER	PRICE	AMOUNT	% OF
10		PERSONS	IN	OUT	OF DAYS	PER DAY	DUE	TOTAL
11						PER PERSON		
12								
13	ALUWANI	6	17/12/2019	23/12/2019				
14	MASINDI	5	16/12/2019	21/12/2019				
15	ELISA	3	14/12/2019	17/12/2019				
16	PETER	6	13/12/2019	19/12/2019				
17	SIMANGO	5	12/12/2019	17/12/2019				
18	JEDINAH	3	10/12/2019	13/12/2019				
19	ZWOITWAHO	4	15/12/2019	19/12/2019				
22	MULAUDZI	4	11/12/2019	15/12/2019				
21	TOTAL							
22	HIGHEST							
23	LOWEST							
24	AVERAGE							

7.1 Spreadsheet and accuracy = ✓✓✓✓✓

7.2 Exam No and Question on header ✓✓

7.3 Column adjusted ✓

7.5 Print with column headings and gridlines ✓✓

TOTAL: 10 marks

QUESTION 8

	A	B	C	D	E	F	G	H
	FARMER STALL DECEMBER HOLIDAY							
1	2 STREET AVENUE							
2	MAKHADO							
3								
4	BOOKING FORM FOR THE MONTH OF DECEMBER 2019							
5								
6								
7								
8	NAME	NUMBER OF	DATE	DATE	NUMBER	PRICE	AMOUNT	% OF
9		PERSONS	IN	OUT	OF DAYS	PER DAY	DUE	TOTAL
10						PER PERSON		
11								
12	ALUWANI	6	17/12/2019	23/12/2019	6	R 300,00	R 10 800,00	25%
13	MASINDI	5	16/12/2019	21/12/2019	5	R 250,00	R 6 250,00	14%
14	ELISA	3	14/12/2019	17/12/2019	3	R 150,00	R 1 350,00	3%
15	PETER	6	13/12/2019	19/12/2019	6	R 300,00	R 10 800,00	25%
16	SIMANGO	5	12/12/2019	17/12/2019	5	R 250,00	R 6 250,00	14%
17	JEDINAH	3	10/12/2019	13/12/2019	3	R 150,00	R 1 350,00	3%
18	ZWOITWAHO	4	15/12/2019	19/12/2019	4	R 200,00	R 3 200,00	7%
19	MULAUDZI	4	11/12/2019	15/12/2019	4	R 200,00	R 3 200,00	7%
22	TOTAL						R 43 200,00	
21	HIGHEST					R 300,00		
22	LOWEST				3			
23	AVERAGE	5						

8.1 Question no: changed ✓✓

8.2 A1 to H1 merged center, Wide Latin 14pt ✓✓✓✓

8.3 Row 1,3,4 Bold applied, ✓✓

8.4 A= All correct ✓✓

B= All correct ✓✓

C= All correct ✓✓

D= All correct ✓✓

E= All correct ✓✓

F= All correct ✓✓

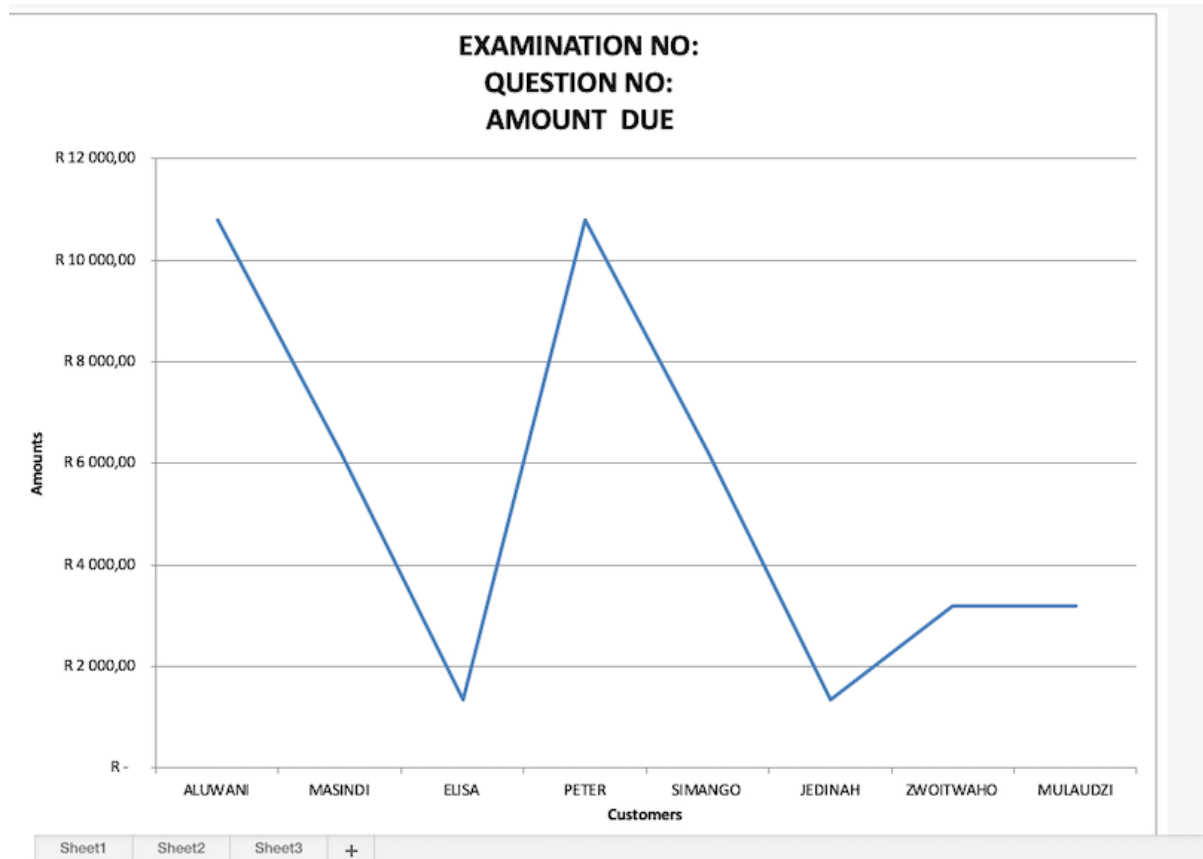
G= All correct ✓✓

8.5 R sign, 2 decimals ✓✓

8.6 Lines inserted correctly ✓✓

8.7 Print in landscape ✓✓

TOTAL MARKS: 30 Marks

QUESTION 9

9.1 Question No changed ✓✓

9.2 Formula displayed ✓✓✓✓✓✓

9.3 Print on one page ✓✓

TOTAL: 10 marks**QUESTION 10**

✓✓

10.4

C:\Users\ \Documents\FRUIT FARM EXAMINATION NUMBER.accdb 05 August 2019
Table: Makhanani Page: 1

Columns	✓✓	✓✓	✓✓
Name	Type	Size	
NO	Long Integer	4	
FRUIT	Short Text	20	
UNIT SOLD	Long Integer	4	
TOTAL AMOUNT	Currency	8	
VAT AMOUNT	Currency	8	
DATE SOLD	Date With Time	8	
EXAM NO	Short Text	13	

✓✓

(10)

10.5

ID	FRUIT	UNIT ITEM	TOTAL AMOUNT	VAT PRICE	DATE SOLD	EXAM NO
1	TOMATOES	30	R16483,30	R 2307,69	2018/12/12	
2	KIWI FRUIT	15	R6196,50	R 867,51	2018/08/07	
3	MANGOES	12	R479,70	R 67,16	2018/09/15	
4	GRAPE FRUIT	15	R5934,60	R 830,84	2019/03/02	
5	PEAR	30	R9387,90	R 1408,19	2019/04/25	
6	APPLE	14	R2697,00	R R377,58	2018/12/17	
7	AVOCADO	15	R9742,50	R 1363,95	2018/06/29	

ID	FRUIT	UNIT ITEM	TOTAL AMOUNT	VAT PRICE	DATE SOLD	EXAM NO
1	TOMATOES	30	R16483,30	R 2307,69	2018/12/12	
2	KIWI FRUIT	15	R6196,50	R 867,51	2018/08/07	
3	MANGOES	12	R479,70	R 67,16	2018/09/15	
4	GRAPE FRUIT	15	R5934,60	R 830,84	2019/03/02	
5	PEAR	30	R9387,90	R 1408,19	2019/04/25	
6	APPLE	14	R2697,00	R R377,58	2018/12/17	
7	AVOCADO	15	R9742,50	R 1363,95	2018/06/29	

(10)

10.11

 PRODUCTION	 PRODUCTION
--	--

PRODUCTION EXAMINATION QUESTION 11C

FRUIT	TOTAL AMOUNT	VAT AMOUNT
APPLES	R 2 697.00	R 377.58
AVOCADO	R 9 742.50	R 1 363.95
GRAPE FRUIT	R 5 934.60	R 830.84
KIWI FRUIT	R 6 196.50	R 867.51
MANGOES	R 479.70	R 67.16
PEARS	R 9 387.90	R 1 408.19
SPINACH	R 16 483.30	R 2 307.69
TOMATOES	R 16 483.50	R 2 307.69
TOTAL AMOUNT	R 67 405.00	VAT TOTAL R 9 530.61

05 August 2019

Pag

PRODUCTION

PRODUCTION

✓✓

FRUIT

✓✓

TOTAL AMOUNT

VAT AMOUNT

APPLES	R 2 697.00	R 377.58
AVOCADO	R 9 742.50	R 1 363.95
GRAPE FRUIT	R 5 934.60	R 830.84
KIWI FRUIT	R 6 196.50	R 867.51
MANGOES	R 479.70	R 67.16
PEARS	R 9 387.90	R 1 408.19
SPINACH	R 16 483.30	R 2 307.69
TOMATOES	R 16 483.50	R 2 307.69
TOTAL AMOUNT	R 67 405.00	VAT TOTAL
		R 9 530.61

✓✓

✓✓

05 August 2019

Pa

05 August 2019

Pag

TOTAL SECTION B: 100
GRAND TOTAL: 200