higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

DATA MANAGEMENT: FARMING N5

13 NOVEMBER 2018

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

1.1	1.1.1	G		
	1.1.2	D		
	1.1.3	H		
	1.1.4	A		
	1.1.5	C		
	1.1.6	B		
	1.1.7	F		
	1.1.8	J		
	1.1.9	E		
	1.1.10	I		
			(10 × 1)	(10)
1.2	1.2.1	False		
	1.2.2	False		
	1.2.3	True		
	1.2.4	True		
	1.2.5	False		
	1.2.6	True		
	1.2.7	False		
	1.2.8	False		
	1.2.9	True		
	1.2.10	False		
			(10 × 1)	(10)
1.3	1.3.1	D		
	1.3.2	B		
	1.3.3	C		
	1.3.4	A		
	1.3.5	C		
	1.3.6	D		
	1.3.7	B		
	1.3.8	C		
	1.3.9	D		
	1.3.10	A		
			(10 × 1)	(10)
				[30]

QUESTION 2

2.1
- The structures of menu systems are the same (consistency)
- Learning one application helps towards learning and using other application (faster learning)
- Several applications can be loaded at the same time (multitasking)
- Information can be manipulated between application (data-sharing)
- The Windows environment can be set up according to own preferences (customisation) (5)

2.2 Path is way or movement within the structure from the root along a certain branch to a specific file or vice versa. (2)

2.3
- Make your profile private
- Limit the amount of personal information
- Do NOT provide any information in chat rooms or public forums
- Be wary of strangers
- Do NOT make any bank account details available (5 × 2) (10)

2.4
- Is used to drag
- Highlight
- Double click
- Select
- Point (5)

[22]

QUESTION 3

3.1 3.1.1 Repetitive Strain Injury
3.1.2 Computer Vision Syndrome
3.1.3 Carpal Tunnel Syndrome
(3 × 3) (9)

3.2
- Backup is copying information on hard disk in order to keep original data in the event of accidentally erase or overwritten or damaged
- Diskcopy works with removable disks which must be the same type, it prompt you insert the source and destination (2 × 2) (4)

3.3
- When accessing files which are virus infected.
- Booting the computer from an infected hard disk, CD-ROM.
- By downloading an infected file from the internet.
- By opening an infected e-mail message or attachment.
- By browsing infected web pages. (5 × 2) (10)

[23]

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QUESTION 4

4.1 An operating system:

- Activates the computer
- Allows the user to communicate with the computer
- Controls the functioning of the computer and enables the computer to run on application
- It is a primary system element of all software

Application software:

- Are programs designed to be carried out by a computer to satisfy a user's specific needs
- It turns the computer into a tool for a specific use
- They are used once the operating system has been loaded (Any 4 × 2) (8)

4.2

- Click the Start menu
- Select and click on ALL PROGRAMS
- Select Accessories
- Then Windows Explorer will appear
- Then Click on it. (5)

4.3 4.3.1 Arithmetic logic unit – part of CPU which carry all the calculations.

4.3.2 Printer – is output peripheral that produces paper copies of the information.

4.3.3 Stylus – light-sensitive pen use to create diagrams or graphic drawings on the screen.

4.3.4 Monitor – to displays information on a screen.

4.3.5 Twitter – a free social networking used to communicate and stay connected through the exchange of words.

(5 × 2) (10)

4.4 Software piracy means illegally copying copyrighted software. It is illegal to copy a computer program from a friend and install it on your computer. (2)

[25]

TOTAL SECTION A: 100

WORD PROCESSING

QUESTION 5

QUESTION 5 EXAMINATION NUMBER

ROVEY DAIRY FARM

„I found Agrivi while searching online for a farm management program. I sent a message acquiring information about the software and within minutes I had a response followed by a Skype demo. I tested the software over the next few days and decided to buy a subscription." ~ Brett Rovey

Brett Rovey is a 3rd generation farmer on Rovey dairy, a family farm based in Arizona. The farm locations are spread out between Palo Verde, Buckeye and Glendale. The Glendale location is about 3 miles from the stadium where Arizona Cardinals play. The dairy farm was started by Brett's grandfather in 1943 and was later purchased by Brett's father Paul in 1978 who started steadily growing the business from 200 cows up to 2000 cows they have today.

Rovey dairy has started farming their ground in 2012, in order to ensure sufficient quantities of quality feed for their cows. They farm around 2000 acres on fields spread out across 50 miles and the entirety of their production goes into feeding the cows. The farms grow a wide range of row crops such as alfalfa, corn silage, sorghum silage, barley, sugar beets, bermuda grass and rye.

Due to an extensive amount of activities being performed on the farms at any given time, there was an issue with keeping things organized, especially due to the widespread fields which are gathered across several locations. Brett has spent time searching for a suitable solution that would streamline the production and get a much clearer insight into production costs, tasks, and other operations across the farms.

"Before switching to Agrivi we used numerous amounts of excel documents and paper time sheets. This was a time consuming process and we still lacked information we needed. Many of the task were not recorded timely and the output was missing valuable information." ~ Brett Rovey

Having spreadsheets and written notes at multiple locations makes it impossible to share the data in an efficient way, not to mention having no real time insight into inventory, which is the key prerequisite for efficient usage of inputs across multiple farm locations. Furthermore, having a large number of fields puts an emphasis on being on top of costs per field and crop, in order to better plan the usage of inputs for the seasons to come.

We needed a program that was always available, easy to use and had the capabilities to track all cost applied to our farming operation. Some of the most important activities we track are water usage, machinery cost and fertilizer." ~ Brett Rovey

When it comes to their business, Rovey dairy puts a heavy focus on cost effectiveness, following up with an ever growing passion for improving their farm management practices. Their goal is to improve the produce quantity and quality due to the fact that everything they produce on the fields eventually ends up as cow feed, affecting the quality of milk they distribute all over the US.



1.1 Header inserted✓✓
1.2 Font changed whole doc ✓✓
1.3 Main heading, sp caps, size ✓✓✓✓
1.4 Two Column changed ✓✓✓
1.5 Page break ✓✓
1.6 Picture correctly formatted✓✓ ✓✓
1.7 Last paragraph edited ✓✓
1.8 Print ✓✓

TOTAL: [20]

5.1	Header inserted	(2)
5.2	Font changed in the whole document	(2)
5.3	Main heading, spelling, caps and size	(4)
5.4	Two columns changed	(3)
5.5	Page break	(2)
5.6	Picture correctly formatted	(4)
5.7	Last paragraph edited	(2)
5.8	Print	(1)
		[20]

SPREADSHEET

QUESTION 6A

	A	B	C	D	E	F
1	ROVEY DAIRY FARM					
2						
3	WEEKLY COMMISSION					
4						
5	PROFIT	30%				
6	COMMISION	5%				
7						
8	PRODUCT PER KG	COST PRICE	PROFIT	SALES PRICE	TOTAL SALES	COMMISSION PAID
9						
10	Spinach	6.99				
11	Oranges	8.45				
12	Tomatoes	14.25				
13	Pears	16.99				
14	Apples	12.55				
15	Bananas	7.89				
16	Pumpkins	10.75				

6.1 6.1.1 Accuracy (5)
6.1.2 Header inserted (2)
6.1.3 Adjusted column (1)
6.1.4 QUEST6A
6.1.5 Print with raw and column heading (2)

QUESTION 6B

ROVEY DAIRY FARM

WEEKLY COMMISSION

PROFIT 30%
COMMISION 5%

PRODUCT PER KG	COST PRICE	PROFIT	SALES PRICE	NUMBER SOLD	TOTAL SALES	COMMISSION PAID
Apples	R 12.55	R 3.77	R 47.25	12	R 567.01	R 28.35
Bananas	R 7.89	R 2.37	R 18.68	20	R 373.51	R 18.68
Oranges	R 8.45	R 2.54	R 21.42	14	R 299.89	R 14.99
Pears	R 16.99	R 5.10	R 86.60	15	R 1 298.97	R 64.95
Pumpkins	R 10.75	R 3.23	R 34.67	16	R 554.70	R 27.74
Spinach	R 6.99	R 2.10	R 14.66	30	R 439.74	R 21.99
Tomatoes	R 14.25	R 4.28	R 60.92	36	R 2 193.08	R 109.65
TOTAL	R 77.87	R 23.36	R 284.19	143	R 5 726.90	R 286.34

6.2 6.2.1 Header changed (1)

6.2.2 Column/Row inserted (3)

6.2.3 Merged formatted (3)

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6.2.4 A All correct
B All correct
C All correct
D All correct
E All correct

(5 × 3) (15)

6.2.5 Currency, 2 decimal places (2)

6.2.6 Line drawn correctly (3)

6.2.7 Sorted correctly (2)

6.2.8 Print with (2)

QUESTION 6C

6.3



6.3.1 Header changed (2)

6.3.2 Column chart correct (5)

6.3.3 Legend displayed on graph (1)

6.3.4 Print in landscape (1)

[50]

DATABASE

QUESTION 7

7.1

C:\Users\ Documents\COMMISSION EXAMINATION NUMBER1 28 January 2017
DATA SET N5 3.accdb
Table: ROVEY DAIRY FARM EXAMINATION NUMBER Page: 1

Columns

Name	Type	Size
ITEM NO:	Long Integer	4
PRODUCT	Short Text	20
CUSTOMER	Short Text	20
COST PRICE	Currency	8
NUMBER ORDER	Integer	2
COMMISSION PAID	Currency	8
SALES DATES	Date With Time	8

Structure
Exam and database name (1)
Accuracy (2)
Name (2)
Field (2)
Size (2)
Print (1)

7.2

ROVEY DAIRY FARM EXAMINATION NUMBER

ITEM NO:	PRODUCT	CUSTOMER	COST PRICE	NUMBER ORDER	COMMISSION PA	SALES DATES
1	Spinach	Malala J	R 6.99	30	R 21.99	2016/12/15
2	Oranges	Siphuma B H	R 8.45	14	R 14.99	2016/12/15
3	Tomatoes	Aliali P	R 14.25	36	R 109.65	2016/12/16
4	Pears	Julia M	R 16.99	15	R 64.95	2016/12/17
5	Apples	Doris B	R 12.55	12	R 28.35	2016/12/18
6	Bananas	Nyambi W	R 7.89	20	R 18.68	2016/12/17
7	Pumpkins	Neshee N	R 10.75	16	R 27.74	2016/12/19

(10)

7.3

Query1 2017/01/28

PRODUCT	COST PRICE	COMMISSION PA
Apples	R 12.55	R 28.35
Bananas	R 7.89	R 18.68
Oranges	R 8.45	R 14.99
Pumpkins	R 10.75	R 27.74
Spinach	R 6.99	R 21.99

(10)
[30]

TOTAL SECTION B: 100
GRAND TOTAL: 200

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