higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

DATA MANAGEMENT: FARMING N5

25 May 2021

This marking guideline consists of 10 pages.

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SECTION A

QUESTION 1

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

(10 × 1) **[10]**

QUESTION 2

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

(10 × 1) **[10]**

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]**

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QUESTION 4

4.1 4.1.1 COM – serial ports to connect modem, mouse, light pen or other output devices

4.1.2 LPT – printer and scanners usually connected via parallel ports, called line printer ports. LPT1, LPT2 and LPT3 refer to the first, second and third parallel-linked devices.

4.1.3 USB (universal serial bus) – Flash disks, digital cameras, scanners, modems, printers, external hard drive, external DVD rewriter

(3 × 2) (6)

4.2 Protects system files against data loss.✓ Backup procedures should be defined clearly and followed routinely.✓ Must be done on removable media✓ that can be stored remotely in case of fire or burglary.✓ Automatic system stores and backs up data each time a transaction record is created or modified.✓ (5)

4.3 Data can be lost and programs damaged during power failure or by switching off without following correct procedure. (2)

4.4 Protects against unexpected power failures because it takes over and computer operates for specified time with no loss of data. Power failure causes many component failures. (2)

[15]

QUESTION 5

5.1
- Users must protect their eyes, wrists, and backs.
- Computer vision syndrome (CVS) is characterised by symptoms such as dry eyes, irritated eyes, blurry vision and headaches.
- Too many hours of keying in can result in painful hand injury called repetitive stress/strain injury (RSI). Carpal tunnel syndrome (CTS), a painful swelling of tendons and sheaths around them, results in tingling, numbness, and pain and frequently requires surgery (3 × 2) (6)

5.2
- Clean, dust-free environment, good ventilation and stable, vibration-free surface
- Do not smoke, eat or drink near computer
- Ergonomic chair enabling adjustment of seat height, back and arm rests
- Frequent breaks, standing up, walking around, stretching
- Keeping correct distance from screen, correct reading angle, lighting, screen size (5 × 2) (10)

5.3
- Internet is a decentralised global network of computers enabling people to communicate electronically
- Intranets are local networks using same programs as Internet to pass information between computers within company or organisation. (2 × 2) (4)

5.4 5.4.1
- Mouse
- Touch pad
- Digitiser
- Light pen
- Joystick (Any 4 × 1) (4)

5.4.2 Easier and quicker than using keyboard; moves insertion point with one click. (1)
[25]

QUESTION 6

6.1 6.1.1
- Activates computer
- Allows communication with computer – group of programs that acts as a 'translator' between the computer and user
- Controls functioning of computer linking with keyboard, monitor, printer, enabling computer to run application programs
- Transfers information between memory and disk
- Controls management of files on diskette or hard disk enabling creating, deleting, copying and renaming of files (Any 3 × 2) (6)

6.1.2 Windows 2000
Windows XP
Windows Vista
Windows 7
Windows NT
Linux (Any relevant 4 × 1) (4)

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6.2 Modem is linked to computer and telephone line to modulate computer's digital signals✓ into analog tones✓ to be conveyed through telephone system. Modem at receiving end converts signal back to digital (demodulate) ✓ and communication can take place with another computer user with similar device. ✓ Data can be exchanged between users via telephone lines in this way. (4)

6.3 6.3.1 GUI is intended to make software user-friendly and provides a user-friendly platform from which all computer work is done. (2)

6.3.2
- Consistency: structures of menu systems are the same
- Faster learning: learning one application helps towards using other applications
- Multi-tasking: several applications can be loaded simultaneously with easy movement between applications
- Data-sharing: information can be manipulated between applications
- Customisation: WINDOWS-environment can be set up according to own preferences (Any 4 × 2) (8)

6.4 Illegal copying of copyrighted software (2)

6.5 Diskette must be formatted before it can be used for storage.✓ This process is handled by the operating system.✓ In this process the read-write head lays down a magnetic pattern on the disk surface✓, enabling the operating system and the disk drive to store data in an organised manner:✓ (4)

[30]

TOTAL SECTION A: 100

SECTION B: WORD PROCESSING

QUESTION 7

7.1 EXAMINATION NUMBER and QUESTION NUMBER✓ 7.2 Font changed to Comic Sans✓✓

MARKETING ***7.3 Jokerman 24 pt, bold, centred✓✓✓***

One definition of marketing is that it is a human activity directed at satisfying needs and wants through an exchange process. Another definition is that it is the performance of all business activities involved in the flow of goods and services from the point of initial production until they are in the hands of the ultimate consumer.

MARKETING MIX ***7.4 All subheadings changed✓✓ 7.5 Indent and justify✓✓***

Marketing mix can be defined as the set of controllable tactical marketing tools (product, price, place and promotion) that a business uses to respond to its target market. The marketing mix consists of everything an enterprise can do to influence the demand for its products. All possible factors can be grouped into four categories known as the four Ps of marketing: Product, Price, Place and Promotion.

MARKETING OTHER COMMODITIES

There are also other commodities that farmers in South Africa produce that are sold in South Africa itself or are exported.

SUGAR ***7.7 Two columns✓✓***

South Africa is the 13th largest sugar producer in the world. About 50% of the product is exported to Africa, the Middle East, North America and Asia.

WINE

South Africa is the 10th largest wine producer in the world and exports over 240 million litres per annum. This sector provides employment for just under 70 000 people. Some 110 000 hectares are under vine cultivation.

7.6 Page break ✓✓

FRUIT

Twelve percent of the total earnings from agricultural export comes from deciduous fruit.

VEGETABLES

Vegetable farmers in South Africa produce potatoes, tomatoes, mealies and sweetcorn. Some 50% of vegetables are marketed at fresh produce markets situated in major cities and towns, for examples Johannesburg and Durban. The balance of the vegetables is marketed directly to supermarkets, fresh produce stores and informal markets.

7.8 Triple line boarder, double line spacing and bold✓✓✓

South African agricultural producers also produce cotton, tobacco, tea and ornamental and cut flowers. Many farmers around urban areas have started farming with grass to supply the instant lawn market – a market created by the many developments that take place in and around urban areas. Another growing industry is aquaculture, with mussels, trout, tilapia, catfish, oysters and waterblommetjies (Cape pondweed) as major aquaculture species.

7.9 Page number bottom centre✓✓
7.10 Printed ✓

[20]

SPREADSHEET

QUESTION 8A

8.1 Correct program and accuracy✓✓✓✓✓

Memorandum FRUIT FORM N5

	A	B	C	D	E	F	G	H	I
1	MAKHANANI FRUIT FARM								
2									
3	SALES REPORT: JANUARY-MARCH 2018								
4									
5	FRUIT	JAN	FEB	MARCH	UNITS SOLD	UNIT PRICE	BE-FORE VAT	VAT 15%	TOTAL INCOME
6									
7	Naartjies	250	270	290		11,59			
8	Peaches	230	250	270		12,99			
9	Oranges	10	10	10		15,99			
10	Mangoes	200	180	160		10,99			
11	Pawpaw	350	450	550		4,59			
12	Apples	450	550	650		9,99			
13	Litchis	120	100	80		8,99			
14	TOTAL								

8.2 EXAMINATION NUMBER and QUESTION NUMBER in header✓✓
8.3 Columns adjusted✓✓
8.4 Lines correctly inserted✓✓
8.6 Printed with row and column headings✓✓

(13)

QUESTION 8B

MAKHANANI FRUIT FARM

SALES REPORT: JANUARY-MARCH 2018

FRUIT	JAN	FEB	MARCH	UNITS SOLD	UNIT PRICE	TOTAL BE-FORE VAT	VAT 15%	TOTAL INCOME
Apples	450	550	650	1650	R 9,99	R 16 483,50	R 2 472,53	R 18 956,03
Litchis	120	100	80	300	R 8,99	R 2 697,00	R 404,55	R 3 101,55
Mangoes	200	180	160	540	R 10,99	R 5 934,60	R 890,19	R 6 824,79
Naartjies	250	270	290	810	R 11,59	R 9 387,90	R 1 408,19	R 10 796,09
Oranges	10	10	10	30	R 15,99	R 479,70	R 71,96	R 551,66
Pawpaw	350	450	550	1350	R 4,59	R 6 196,50	R 929,48	R 7 125,98
Peaches	230	250	270	750	R 12,99	R 9 742,50	R 1 461,38	R 11 203,88
TOTAL	**1610**	**1810**	**2010**	**5430**	**R 75,13**	**R 50 921,70**	**R 7 638,26**	**R 58 559,96**

8.7 Question number changed to 8B✓✓
8.8 Merged, centred, Algerian 20 pt✓✓✓✓
8.9 Subheading Brush Script MT 16 pt, merged and centred✓✓✓✓
8.10 Row 5 bold, italics and rotated up text✓✓✓✓
8.11 A correct calculation✓✓
B correct calculation✓✓
C correct calculation✓✓
D correct calculation✓✓
E correct calculation✓✓

8.12 R sign✓✓
8.13 Last row ✓✓
8.14 Printed in landscape✓✓

(30)

QUESTION 8C

	A	E	F	G	H	I
1	**MAKHANANI FRUIT FARM**					
2						
3	*SALES REPORT: JANUARY-MARCH 2018*					
4						
5	*FRUIT*	*UNITS SOLD*	*UNIT PRICE*	*TOTAL BE-FORE VAT*	*VAT 15%*	*TOTAL INCOME*
6						
7	Apples	=SUM(B7:D7)	9,99	=E7*F7	=G7*15%	=SUM(G7:H7)
8	Litchis	=SUM(B8:D8)	8,99	=E8*F8	=G8*15%	=SUM(G8:H8)
9	Mangoes	=SUM(B9:D9)	10,99	=E9*F9	=G9*15%	=SUM(G9:H9)
10	Naartjies	=SUM(B10:D10)	11,59	=E10*F10	=G10*15%	=SUM(G10:H10)
11	Oranges	=SUM(B11:D11)	15,99	=E11*F11	=G11*15%	=SUM(G11:H11)
12	Pawpaw	=SUM(B12:D12)	4,59	=E12*F12	=G12*15%	=SUM(G12:H12)
13	Peaches	=SUM(B13:D13)	12,99	=E13*F13	=G13*15%	=SUM(G13:H13)
14	**TOTAL**	**=SUM(E7:E13)**	**=SUM(F7:F13)**	**=SUM(G7:G13)**	**=SUM(H7:H13)**	**=SUM(I7:I13)**

8.16 All formulae correct ✓✓✓✓✓✓
8.17 Question number changed to 8C✓
8.18 Column adjusted and hidden✓
8.19 Printed in landscape✓✓

(10)
[53]

QUESTION 9: DATABASE

Makhanani 2018/08/08

NO	FRUIT	UNIT SOLD	TOTAL AMOUNT	VAT AMOUNT	DATE SOLD	EXAM NO	QUESTION 9
1	APPLES	1650	R 16 483.30	R 2 307.69	2018/07/10		
2	BANANAS	750	R 9 742.50	R 1 363.95	2018/08/14		
3	PEACHES	300	R 2 697.00	R 377.58	2018/08/31		
4	NAARTJIES	1350	R 6 196.50	R 867.51	2018/08/20		
5	ORANGES	1650	R 16 483.50	R 2 307.69	2018/08/06		
6	GRAPE	30	R 479.70	R 67.16	2018/08/22		
7	MANGOES	540	R 5 934.60	R 830.84	2018/08/13		
8	PAWPAW	810	R 9 387.90	R 1 408.19	2018/08/16		

9.3 Table information, accuracy ✓✓✓✓✓✓✓✓
Printed

(8)

C:\Users\ \Documents\FRUIT FARM EXAMINATION NUMBER.accdb 03 August 2018
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
QUESTION 9	Short Text	10

9.4 Database Fruit Farm ,Exam No✓✓✓✓
Field, type, size✓✓✓✓
Printed in portrait ✓✓

(10)

EXAMINATION NUMBER QUESTION NUMBER

DATE SOLD	FRUIT	TOTAL AMOUNT
2018/07/10	APPLES	R 16 483.30
2018/08/06	ORANGES	R 16 483.50
2018/08/13	MANGOES	R 5 934.60
2018/08/14	BANANAS	R 9 742.50
2018/08/16	PAWPAW	R 9 387.90
2018/08/20	NAARTJIES	R 6 196.50
2018/08/22	GRAPE	R 479.70
2018/08/31	PEACHES	R 2 697.00

9.5 Report created with correct field ✓✓✓

9.6 Sorted ascending with Date sold✓✓✓

9.7 EXAM NO and QUESTION NO✓✓
Title correct information ✓
9.8 Printed

(9)
[27]

TOTAL SECTION B: 100
GRAND TOTAL: 200

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