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Province of the
EASTERN CAPE
EDUCATION

NATIONAL SENIOR CERTIFICATE

KEREITI 12

LOETSE 2022

DISAENSE TSA TEMO (AGRICULTURAL SCIENCES) P2
TATISO YA HO TSHWAYA

MATSHWAO: 150

Tataiso ena ya ho tshwaya e na le maqephe a 9.

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KAROLO YA A

POTSO YA 1

1.1	1.1.1	C ✓✓		
	1.1.2	A ✓✓		
	1.1.3	C ✓✓		
	1.1.4	D ✓✓		
	1.1.5	C ✓✓		
	1.1.6	C ✓✓		
	1.1.7	B ✓✓		
	1.1.8	B ✓✓		
	1.1.9	C ✓✓		
	1.1.10	D ✓✓	(10 x 2)	(20)
1.2	1.2.1	D ✓✓		
	1.2.2	G ✓✓		
	1.2.3	C ✓✓		
	1.2.4	B ✓✓		
	1.2.5	F ✓✓	(5 x 2)	(10)
1.3	1.3.1	Laiba ✓✓		
	1.3.2	Entheprenyeshipo ✓✓		
	1.3.3	Niche makething ✓✓		
	1.3.4	Mutheishene ✓✓		
	1.3.5	Prephotensi ✓✓	(5 x 2)	(10)
1.4	1.4.1	Makething ✓		
	1.4.2	Ovahete ✓		
	1.4.3	Khapithale ✓		
	1.4.4	Dijine ✓		
	1.4.5	Pholigins ✓	(5 x 1)	(5)

MATSHWAO KAOFELA A KAROLO YA A: 45

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KAROLO YA B

POTSO YA 2: AKERIKHALETJHARALE MANEIJEMENTE LE MAKETHING

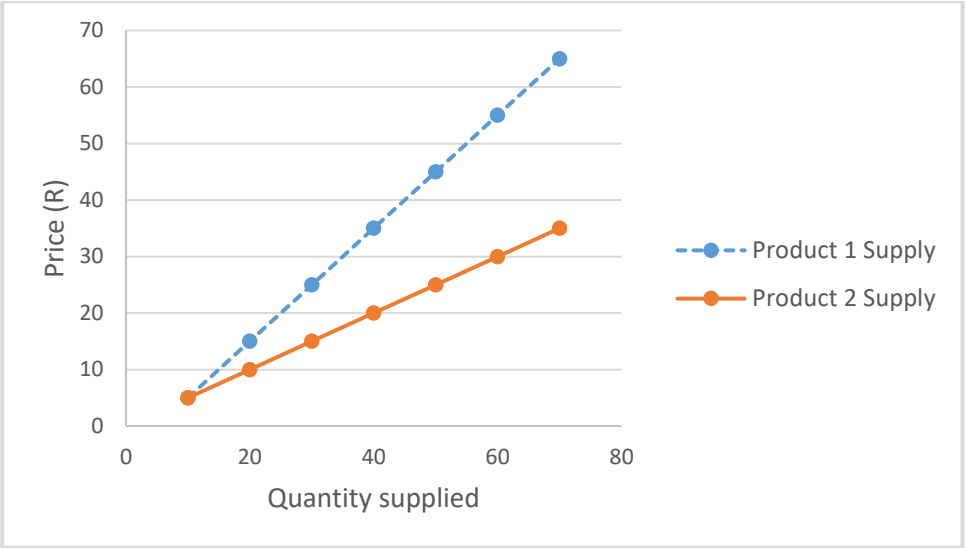
2.1 2.1.1 **Ho qolla di makething fankshene**
B – Porosesing ✓ (1)
C – Phakhejing ✓ (1)

2.1.2 **Mesebetsi ya makething fankshene B**
- Ho etsa mesebetsi ✓
- Ho fokotsa mesalla ✓ (2)

2.1.3 **Digaedelaene tse nepahetseng**
- Ntho tse phuthelang di tlameha ho ba resaekelebole ✓
- Ntho tse phuthelang di tlameha ho bola ✓ (2)

2.1.4 **Papiso ya boleng ba dihlaiswa ho poente A le D**
Ho poente **A** porodakethe e na le boleng bo tlase ✓ ho poentse **D** prododakethe e na le boleng bo hodimo. ✓ (2)

2.2 **Releisheneshipi pakeng tsa poraese le saplae ya diporodakethe 1 le 2.**



<u>Ruburiki</u>
- Sehloho se nepahetseng ✓
- x-axis di leibeluwe mme tsa khalebareithwa ka ho nepahetseng (khuanthithi e sapolauweng) ✓
- y-axis di leibeluwe mme tsa khalebareithwa ka ho nepahetseng (Poraese) ✓
- Mofura wa kerafo (kerafo ya laene) ✓
- Diyunitsi tse nepahetseng. (R) ✓
- Akhureisi ✓ (6)

2.2.2 **Ho qolla porodakethe e elasitiki**
Porodakethe 2 ✓ (1)

2.2.3 **Ho mothiveitha Karabo ya POTSO 2.2.2**
Ho fetoha hwa poraese ✓ ho baka ho fetoha ho honyane hwa sapolae. ✓ (2)

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2.2.4 **Makething fankshene tse THARO ho dayakeramo**
- Nako ya ho hlaisa dihlaiswa tsa akerekhaletjha e telele ✓
- O bola hwa dihlaiswa tsa akerekhaletja ✓
- Ho kotula le ho maeka diporodakethe tsa akerekhaletjha ka disezene. ✓ (Leha ele dife 2 x 1) (2)

2.3 2.3.1 **Ho Qolla dimaketing sisetemo**
A – Maketing ekhonterolwang ✓
B – Fori maketing ✓ (2)

2.3.2 **Maketing sisetemo e bakang:**
(a) A (1)
(b) B (1)

2.3.3 **Di diseatevantage tsa makethhing sisetomo A ho di bareki**
- Maemo a maemo (Standardisation) ✓
- Litheko tse tsitsitseng (Stable prices) ✓
- Libaka tse sireletsehileng tsa (Secure market outlets)
- Thekiso e hlophisehileng (Orderly marketing) (Leha ele dife 2 x 1) (2)

2.3.4 **Dimakething sisetemo tse ka fumanehang ho bo rapolasi**
- Famo kaite makete ✓
- Foreshe projuee makete ✓
- Setoko seili ✓
- Makete e daerekete ✓
- Inthanete maketing ✓ (Leha ele dife 2 x 1) (2)

2.4 2.4.1 **Dokhumente e hlalositsweng seratswaneng**
Bisinese plane ✓ (1)

2.4.2 **Bohlokwa ba dokhumente e hlalositsweng seratswaneng**
- Ho Fumana ditjhelete ✓
- Ho hohela di invesetara ✓
- Ho tataisa mesebetsi ya letsatsi ka bong ✓
- E hlalosa mesebetsi le boikarabelo ba motho ka mong a leng teng ✓
- Ho polana chelate e tla hokeha ✓ (Leha ele dife 2 x 1) (2)

2.4.3 **Diphoso tse jwaelehileng ha o etsa dokhumente e hlalositweng seratswaneng**
- Dintlha tse sa fellang ✓
- Ditjhelete tse sa fellang ✓
- Menahano eseng ya bonnete ✓
- Ho se utlwahale ✓
- Ho iphapanyetsa diriski ✓ (Leha ele dife 2 x 1) (2)

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2.4.4 **Diateribute tse etsang enthaprinye e tswelelletseng**

- Mamello ✓
- Mothiveishene ✓
- Boetapele ✓
- Boinehele ✓
- Ho sebetse ka thata ✓
- Ho ba inoveithivi ✓
- Ho Nka diriski ✓
- Athitjhute e posethivi ✓ (Leha ele dife 3 x 1) (3)

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POTSO YA 3: DIPORODAKESHENE FEKETHARA

3.1 3.1.1 **Thlaloso ya di ikhonomiki kharekethariSitiki tsa lende**

A Ebeniseishene e fokotsa amounte ya land ✓ e ka sebediswang ho akerikhaltjha ✓

B Ha o eketsa di inphute o tla fumana autephute e eketsehileng ✓ hofihlela moo e bang keketso ya inphute e se e sa tlesi keketso ho di outephuti ✓ (4)

3.1.2 **Fankeshene ya lende e ikhonomiki.**

- E dumella porodakeshene ya dijo ✓
- E refa sebaka sa humene setlelemente ✓
- E refa sebaka sa ho etsa diekethifithi tsa akerikhaltjha ✓
- Ke asete e ka sebediswang ele kholatherale ✓
- Mohlodi wa di minerale ✓ (Leha ele dife 2 x 1) (2)

3.1.3 **Methote tse ka sebediswang ho ntlafatsa porokedathivithi ya lende**

(a) Manejemente ya metsi/ho tshella/pokello ya metsi a pula ✓

(b) Restoring the land's potential ✓ (2)

3.2 3.2.1 **Ho klasifaya basebetsi ho ya ka nako ya khiro**

A – Basebetsi ba Phemanente ✓

B – Basebetsi ba Sezenale ✓

C – Basebetsi ba Kheshuale ✓ (3)

3.2.2 **Dokhumente e saennweng pakeng tsa mosebetsi le mohiri**

Konteraka ya basebetsi ✓ (1)

3.2.3 **Bohlokwa ba khonteraka ya basebetsi**

- E sireletsa basebetsi hore ba se ekesepoloithwe ✓
- E sireletsa mohiri jwalo ka ha e reguleitha maitshwaro a basebetsi.✓
- E thibela dikgohlang pakeng tsa morebetsi le mohiri ✓

(Leha ele dife 2 x 1) (2)

3.2.4 **Melao e sebetsang tlasa maemo ana**

(a) Anempoloemente Inshoresnse Fande / Act 63 of 2001 (UIF) (1)

(b) Sekils Divelopomente Act / Act 97 of 1998 (1)

(c) Okhupheishenale Helthe Sefethi Act / Act 85 of 1993 (OHS) (1)

3.2.5 **Ditrategi tse ka sebediswang ke rapolasi ho boloka basebetsi**

- Ho mothiveitha basebetsi ✓
- Ho ba le nenane le mofuta o nepahetseng ✓
- Ho aposekila basebetsi ba hao ✓ (Leha ele dife 2 x 1) (2)

3.3 3.3.1 **Ho hlwaya rekhote ya tjelete**

Balanse shiti ✓ (1)

3.3.2 **Mehlala ya mefuta ya dikhapitale:**

(a) Lende ya polasi/meaho le dintlafatso ✓ (1)

(b) Dikoloi/Metjhini le equipimente/setoko sa ho borida ✓ (1)

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3.3.3 **Mofuta wa kerediti ho POTSO 3.3.2**
Fikiset Khaphithale – Kerediti ya nako e telele ✓
Muvebole khaphithale – kerediti ya nako e mahareng ✓ (2)

3.3.4 **Ho khalekhuleita Nete wefe**
Nete Wefe = Diasete – diliebilithi ✓
= (R100 000 + R80 000 + R600 000 + R1 200 000 + R150 000) ✓ – (R285 000 + R300 000) ✓
= R2 130 000 – R585 000
= R1 545 000 ✓ (4)

3.3.5 **Khomente ho vaebilithi ya enthaporaese**
Enthaporaese e vaebole ✓ hobane e khona ho sasteina nete wethe ya yona ✓ (2)

3.4 **Ho hlwaya setrateji sa ho maneja riski**

3.4.1 Daevesifikheishene ✓ (1)

3.4.2 Folekesibilithi ✓ (1)

3.4.3 Riski shering ✓ (1)

3.5 **Ho qolla di porensipole tsa manejemente**

3.5.1 Ho Plena ✓ (1)

3.5.2 Impolimentheishene ✓ (1)
[35]

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QUESTION 4: BEISIKI AKERIKHALTJHARALE JENETHIKS

4.1 4.1.1 **Mekhenizemo ya lefutso e bontshitsweng ho dayakeramo**
Khodominense ✓ (1)

4.1.2 **Mothiveitha Karabo ya POTSO 4.1.1**
Dikhareketharisetiki tsa batswadi ba homozaegase ✓ di hlaile ho finothaepe ya ofosepring e heterozaegase ✓ (2)

4.1.3 **Punnet skwere e bontshang jinothaepe ya jenereishene ya Fs**

	C^R	C^W ✓
C^R	$C^R C^R$	$C^R C^W$
C^W ✓	$C^R C^W$	$C^W C^W$ ✓

✓

Roboriki
Punnet sekwere le digamete e nang le dijinothaepe tsa di ofosepring . ✓
Digamete tse nepahetseng tsa monna ✓
Gigamete tse nepahetseng tsa Mosadi ✓
Genothaepe e e nepahetseng ya ofosepring ✓ (4)

4.1.4 **Reshiyo ya F_2 Finothaepe**
1 Kgubedu : 2 Kgubedu le Tshweu : 1 Tshweu ✓ (1)

4.1.5 **Diphathene tsa lefutso bakang difinothaepe tse sa tshwaneng**
- Incompolete dominense ✓
- Maltipole alele ✓
- Pholijini ✓
- Ephisetasese ✓ (Leha ele dife 2 x 1) (2)

4.2 4.2.1 **Tlhaloso ya varieishene**
E bolela ho fapakana ho teng ✓ ho diphoofolo tsa sepishi sele seng ✓ (2)

4.2.2 **Atevanthege ya varieishene seratswaneng**
E dumella adopshene ho di phestisaetse le di seteresase tsa tikoloho ✓ (1)

4.2.3 **Ekesethenale khozese tsa varieishene dimeleng**
- Letsatsi ✓
- Metsi ✓
- Themphereitjhara ✓
- Mobu ✓
- Dikokwana le disiki ✓ (Leha ele dife 2 x 1) (2)

4.3 4.3.1 **Tlhwayo ya mofuta wa selekeshene**
A – Natjhurale selekeshene ✓
B – Athifishiale silekeshene ✓ (2)

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4.3.2 **Mefuta ya mekgwa ya selekeshene ho B**
- Phedikri silekeshene ✓
- Mese silekeshene ✓
- Porogeni silekeshene / Pure laene silekehene ✓
- Femeli silekeshene ✓

(Leha ele dife 2 x 1) (2)

4.3.3 **Ditlhoko tsa dikharekethariſitiki tse sebedisitsweng karolong ya B**
- Dikharekitharisitiki di tlameha ho futseha ✓
- Dikharekitharisitiki di tlameha ho ba le boleng ba tjhelete ✓
- Dikharekitharisitiki di tlameha ho kaleha ✓

(Leha ele dife 2 x 1) (2)

4.4 **Ho Hlwaya boriding sisetomo e sebedisitsweng**

4.4.1 Korose boriding ✓ (1)

4.4.2 Apokereiding ✓ (1)

4.4.3 Inboriding ✓ (1)

4.4.4 Sepisise korosing ✓ (1)

4.5 4.5.1 **Tlhaloso ya jenethiki modifikheishene e sebedisitsweng**
Eleketerophoreishene ✓ (1)

4.5.2 **Tlalosoya ho fihlella karabong ya 4.5.1 kahodimo**
Kharente ya motlakase e sebediswa ho etsa masoba ho sele memboreini ✓ moo jenethiki matheriale e kgonang ho fihlella ho nyutlei ✓ (2)

4.5.3 **Ho loka hwa tshebediso ya dimela tse modifauweng naheng tsa Aforika**
Ha di ya loka ✓ hobane, naha tsa Aforika ha di na tsebo ✓/ tekgeniki ena e ya tura. ✓ (2)

4.5.4 **Tlhaloso ya sepheo sa mekgwa ya ho modifayadijini**
- Kotulo e eketsehileng ✓
- Dikhomesheale poropathisi tse eketsehileng ✓
- Boleng ba dinyutirientse tsa dimela bo eketsehileng ✓
- Tlhaiso ya dimela tse kentsweng meriana ✓ (Leha ele dife 2 x 1) (2)

4.5.5 **Ho Klasifaya bokotsi bo ka bakawng ke dimela**
- Bokotsi ba sekhhurithi ya dijo ✓
- Bokotsi ba tikoloho ✓
- Soshio-ekhonomic riski ✓ (3 x 1) (3)

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MATSHWAO A KAROLO YA B: 105
MATSHWAO KAOFELA: 150

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