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Province of the
EASTERN CAPE
EDUCATION

NATIONAL SENIOR CERTIFICATE

IBANGA 12

SEPTEMBA 2022

ISAYENSI YEZOLIMO (AGRICULTURAL SCIENCES) P2
ISIKHOKELO SOKUMAKISHA

AMANQAKU: 150

Esi sikhokelo sokumakisha sinamaphepha asi-9.

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ICANDELO A

UMBUZO 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	Abasebenzi ✓✓		
	1.3.2	IEntrapreniyeship ✓✓		
	1.3.3	INitshi maketing ✓✓		
	1.3.4	IMuthajen ✓✓		
	1.3.5	IPrephotensi ✓✓	(5 x 2)	(10)
1.4	1.4.1	IMakething ✓		
	1.4.2	IOvahed ✓		
	1.4.3	IKhapital ✓		
	1.4.4	UMbono/IVishin ✓		
	1.4.5	IiPholijin ✓	(5 x 1)	(5)

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ICANDELO B

UMBUZO 2: IMANEYIJIMENT NE MAKETHING

2.1 2.1.1 **Ukuchongwa kwemisebenzi makething**
B – IProsesing ✓ (1)
C – IPhakheyijing ✓ (1)

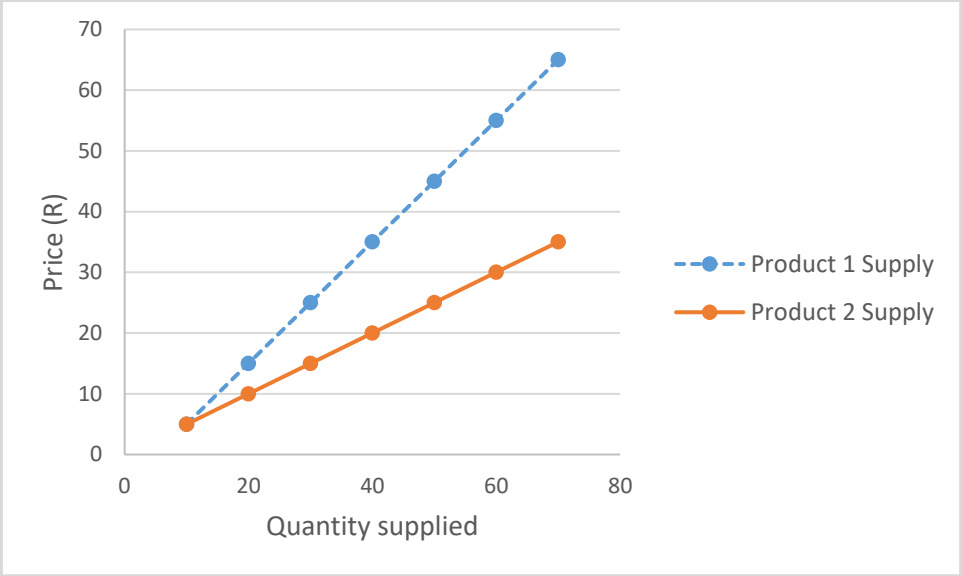
2.1.2 **Inxaxheba yomsebenzi ka makething B**
- Idala imisebenzi ✓
- Icutha intshiyekela/ovasaplayi ✓ (2)

2.1.3 **Isikhokhelo seEnvayirometali sasteyinebli phakheyijing**
- Iphakheyijing mayibe resayiklebli ✓
- Iphakheyijingi mayibe bhayodigredebli ✓ (2)

2.1.4 **Ukuthelekisa ixabiso lemveliso ka A no D**
Ku **A** imveliso inexabiso eliphantsi ✓ ku **D** inexabiso eliphezulu. ✓ (2)

2.2 **Unxibelelwano phakathi kwexabiso nesaplayi seprowudakthi 1 no 2.**

2.2.1



Itsheklisti
- korekthi ✓
- *x*-axis Ikhalibreyithwe korekthi neleyibhel (Ubungakanani besaplayi) ✓
- *y*-axis Ikhalibreyithwe korekthi neleyibhel (Ixabiso) ✓
- Uhlobo lwegrafu (Layini grafu) ✓
- Iiunithi ezikorekthi(R) ✓
- Iaktyhuresi ✓ (6)

2.2.2 **Ukuchongwa kweprowudakthi eprayisi inelastikh**
IProdakthi 2 ✓ (1)

2.2.3 **Inkxaso yempendulo yoMBUZO 2.2.2**
Ukutshintsha kwe xabiso ✓ kukhokhelela kutshintsho oluncinane kwisaplayi. ✓ (2)

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2.2.4 **Imisebenzi emiTHATHU yemakething kumfanekiso**
- Ixesha lokuvelisa imveliso yezolimo ithatha ixesha elide ✓
- Iagrikhaltsharal prodakths zonakala msinya ✓
- Ukuvunwa nokuthengiswa kwe agrikhaltsharal prodakthi kusizinali ✓

(Zibe 2 x 1) (2)

2.3 2.3.1 **Ukuchongwa kwee makething sistim**
A – Khontrold makething ✓
B – Fri makething ✓ (2)

2.3.2 **IMaketing sistim ekhokhelela kwi:**
(a) A (1)
(b) B (1)

2.3.3 **idisadvanteyijizi zemakething sistim A kubathengi**
- Ukubekwa emgangathweni (Standardisation) ✓
- Amaxabiso azinziyelo (Stable prices) ✓
- Iindawo zokuthengisa ezikhuselekileyo (Secure market outlets
- Ukuthengisa ngocwangco (Orderly marketing) (Zibe 2 x 1) (2)

2.3.4 **IiMakething tshanel ezikhoyo zamafama**
- IFam geyithi makethi ✓
- IiFresh produsi makethi ✓
- IiStock seyile ✓
- IDayirekthit makething ✓
- Iintaneth makething ✓ (Zibe 2 x 1) (2)

2.4 2.4.1 **Idotyhumenti echazwe kumhlathi**
Bhizinesi plen ✓ (1)

2.4.2 **Ukubaluleka kwedotyhumenti echazwe kumhlathi**
- Ukufumana imali ✓
- Ukutsala iinvestazi ✓
- Ikhokhela imisebenzi yosuku ✓
- Icacisa indima noxanduva lwabantu abachaphazelekayo ✓
- Icwangcisa iimfuno zekhapitali ✓ (Zibe 2 x 1) (2)

2.4.3 **Iimpazamo ezinokwenzeka xa kuyilwa idotyhumenti ecaciswe ngasentla**
- Iitkhnikhal ditheyili ezingaphelelanga ✓
- Iifayinenshiyali ezingaphelelanga ✓
- Uqikelelo olunganyanisekanga ✓
- Ukuba veyigi ✓
- Ukungazihoyi iiriski ✓ (Zibe 2 x 1) (2)

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2.4.4 **Iiatribhuthi ze-entrapreniye ebalaseleyo/ephumeleleyo**

- Pheseviyerensi ✓
- Mothiveyishini ✓
- Lidashiph ✓
- khomithimenti ✓
- Hadi wekhingi ✓
- Inoveyithiv ✓
- Riski theyikhing ✓
- Phosithiv athityhudi ✓ (Zibe 3 x 1) (3)

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UMBUZO 3: IIPRODAKSHIN FEKTHA

3.1 3.1.1 **Ingcaciso ze-ekhonomikh kharaktheristik zomhlaba**

A – IEbhenizeyishini icutha umhlaba okhoyo ✓ /we-agrikhaltsha ✓
B – Ekuqaleni, ukonyuka kwe inphuthi kukhokhelela kukonyuka kwe awuthiputhi ngokufanayo ✓ kude kufikelele.apho ukonyuka kwe inphuthi kungenyusi awuthiputhi ✓ (4)

3.1.2 **Ii-ekhonomikh fankshin zomhlaba**

- Yenza ukuveliswa kokutya ✓
- Inika ifizikhali speyisi sokuhlala abantu ✓
- Inika ifizikhali speyisi senkqubo zolimo ✓
- yi asethi engasetyenziswa njenge kholatheral ✓
- Sisiseko seeminerali ✓ (Zibe 2 x 1) (2)

3.1.3 **IiMethodi ezinokusetyenziswa ukuphucula iprodakthivithi yomhlaba**

(a) Imaneyijimenti yamanzi/ukunkcenkceshela/ukukhongozela amanzi emvula ✓
(b) Ukubuyisela Amandla omhlaba ✓ (2)

3.2 3.2.1 **Iklasifikheyishini yendidi zabasebenzi ngokwexesha lengqesho**

A –Abasebenzi abaphemanent/abasisigxina ✓
B –Abasebenzi abasizinal ✓
C – Abasebenzi abakheshuwali/bethutyana ✓ (3)

3.2.2 **Idotyhumenti esayinwa phakathi komqashwa nomqeshi**

Leyibha khontrakthi ✓ (1)

3.2.3 **Ukubaluleka kwe leyibha khontrakthi**

- Ikhusela abasebenzi ekuxhatshazweni ✓
- Ikhusela abaqashi ngokwenza umthetho wesimo/wesimilo ✓
- Ithintela ingxubakaxaka phakathi komqashi nabaqeshwa bakhe ✓

(Zibe 2 x 1) (2)

3.2.4 **Imithetho yabasebenzi elawula kwimeko ngemeko**

(a) Unemployment Insurance Fund / Act 63 of 2001 (1)
(b) The Skills Development Act / Act 97 of 1998 (1)
(c) Occupational Health and Safety Act / Act 85 of 1993 (1)

3.2.5 **Izitratheji eziBINI ezinokusetyenziswa ngumfama ukugcina abasebenzi**

- Khuthaza abasebenzi ✓
- Ukubanohlobo nenani labasebenzi olufanelekileyo ✓
- Ukonyusa izakhono zabasebenzi ✓ (Zibe 2 x 1) (2)

3.3 3.3.1 **Ukuchongwa kwe fayinenshiyal rekhodi**

Bhalansi shithi ✓ (1)

3.3.2 **Imizekelo yendidi zekhapitali:**

(a) Umhlaba wasefama/Izakhiwo nophuculo ✓ (1)
(b) Iinqwelo/Iimoto/Imatshini nezixhobo /Briding stokh ✓ (1)

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3.3.3 **Iintlobo zekhapitali ezifunekayo zokufayinensa imizekelo yekhapitali kuMBUZO 3.3.2**
Fiksd khapital – long them kredit ✓
Movebli khapital – midiyam them kredit ✓ (2)

3.3.4 **Ukubalwa kwe net weth**
INet weth = IiAsset – liyabilithi ✓
= (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 **Khomenta ngempumelelo ye-entaprayizi**
Ientaprayizi yimpumelelo ✓ kuba inesabstenshiyal net weth. ✓ (2)

3.4 **Ukuchongwa kwe riski maneyijigiment stratheji**

3.4.1 Dayivesifikheyishin ✓ (1)

3.4.2 Fleksibilithi ✓ (1)

3.4.3 Riski shering ✓ (1)

3.5 **Ukuchongwa kweeprinsipli zemaneyijimenti**

3.5.1 Plening ✓ (1)

3.5.2 Implementeyishin ✓ (1)
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UMBUZO 4: IIBHEYISIKH AGRIKHALTSHARAL JENETHIKH

4.1 4.1.1 **iMekhanism ye inherithensi ebonakaliswe kumfanekiso**
Khodominensi ✓ (1)

4.1.2 **Inkxaso yempendulo yoMBUZO 4.1.1**
Iimpawu zabazali bobabini abahomozayigosi ✓ zibonakala ngokugcweleyo kwifinotayiph yenzala eheterozayigosi. ✓ (2)

4.1.3 **IPunnet skwe efumanisa iF$_2$-jenereyishin jinotayiphu**

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

✓

iRubrikh
IPunnet square eneegameyithi nee jinotayiphu ✓
Imeyili gameyithi ezikorekthi ✓
Ifimeyili gameyithi ezikorekthi ✓
Iijinotayiph zenzala ezikorekthi ✓ (4)

4.1.4 **Ifinotayipikh reyishiyo ka F$_2$**
1 Bomvu : 2 Bomvu no mhlophe : 1 mhlophe ✓ (1)

4.1.5 **iiPaten ze inherithensi ezikhokhelela kwi finotayiph ezohlukeneyo**
- Inkhomplithi dominensi ✓
- IiMaltipli alele ✓
- IiPholijini ✓
- Ephistasis ✓ (Zibe 2 x 1) (2)

4.2 4.2.1 **Ukuchazwa kwe variyeyishin**
Kukwahlukana ✓ Phakathi kweeindividyuwali ze spesis esinye ✓ (2)

4.2.2 **Iiadvanteyiji zevariyeyishin kumhlathi**
Ivumela iadapteyishin yezinambuzane ne envayiromental stresazi ✓ (1)

4.2.3 **Iiexthenal khozi zevariyeyishin kwizityalo**
- Ilanga ✓
- Amanzi ✓
- Ithempritsha ✓
- Umhlaba/isoyili ✓
- Izinambuzane nezifo ✓ (Zibe 2 x 1) (2)

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4.3 4.3.1 **Ukuchongwa kwendlela zesilekshin/zokukhetha**
A – Natshural silekshin ✓
B – Athifishiyal selekshin ✓ (2)

4.3.2 **IiMethodi zohlobo lwe selekshin B**
- Phedigri selekshin ✓
- Mes selekshin ✓
- Projeni selekshin / Phiyo layin selekshin ✓
- Femeli selekshin ✓ (Zibe 2 x 1) (2)

4.3.3 **Iimfuno zempawu ezisetyenziswa kwiselekshin yohlobo B**
- Iimpawu mazibe herithebli/mazifuzeke ✓
- Iimpawu mazibaluleke ngokoqoqosho/ngokweikhonomi ✓
- Iimpawu mazibe mesharebli ✓ (Zibe 2 x 1) (2)

4.4 **Ukuchongwa kwebriding methodi**

4.4.1 Khros briding ✓ (1)

4.4.2 Upgreyiding ✓ (1)

4.4.3 Inbriding ✓ (1)

4.4.4 Spesis khrosing ✓ (1)

4.5 4.5.1 **Ukuchongwa kwetekhnikh yejenethik modifikheyishin**
Elekthroporeyishin ✓ (1)

4.5.2 **Inkxaso yoMBUZO 4.5.1 ongentla**
I-ilekhtrikh kharent isetyenziselwa ukudala iphozi kwi sel membreyini ✓ ukuze ijenethikh matheriyel ifikelele kwi nyukleyi ✓ (2)

4.5.3 **Isuthabhilithi yokuphuculwa kwezityalo zamaxesha angoku kumazwe aseAfrika**
Azikho suthebli ✓ ngenxa yokuba amazwe aseAfrika awanalo ulwazi olutekhnikhal / itekhnoloji iduru ✓ (2)

4.5.4 **Injongo zetekhnikh yejenethikh modifikheyishin**
- Iphucula isivuno sezityalo ✓
- Iphucula impawu zekhomeshiyali ✓
- Inyusa inyutrishinal velu yezityalo ✓
- Iprodyusa izityalo zefamasethikhal ✓ (Zibe 2 x 1) (2)

4.5.5 **Iiphothenshiyal riski ezinxulunyaniswa neemethodi zokuphucula izityalo ezinje ngale ibonakaliswe ngasentla**
- Iiriski zeseyifti yokutya✓
- Iiriski ze-envayiromenti ✓
- Iiriski zeSoshio-ekhonomikh ✓ (3 x 1) (3)

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AMANQAKU EWONKE ECANDELO B: 105
AMANQAKU EWONKE: 150

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