



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

IGREYIDI 12

ISINDEBELE ILIMI LEKHAYA (HL)

IPHEPHA LOKUTHOMA (P1)

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IMITLOMELO: 70

ISIKHATHI: ama-iri ama-2

Iphepheli linamakhasi ali-11.

**YELELA**

1. Iphepheli LINEENGABA EZINTATHU: ISIGABA A, B, kanye nesigaba C.  
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ISIGABA C: Ihlelo nokusetjenziswa kwelimi (30)
2. Phendula YOKE imibuzo.
3. Funda YOKE imilayelo onikelwe yona ngokuyelela okukhulu.
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6. Tlola iinomboro zemibuzo njengombana zinjalo ephepheni lemibuzo.
7. Tjhiya umuda OWODWA ngemva kwependulo enye nenye.
8. Tlola kuhle nangesandla esibonakalako.
9. Peleda amagama ngendlela efaneleko bewutlole nemitjho ezwakalako.
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**ISIGABA A: UKUFUNDA NOKUZWISISA****UMBUZO 1**

Phendula imibuzo engaphasi kweengatjana zombili, u-1.1 no-1.2.

1.1 Funda itheksti engenzasi bese uphendula imibuzo elandelako.

**UMTJHISO WEPHASI MAZOMBE.**

Umtjhiswo wephasi mazombe kukwenyuka ngokweqileko kokutjhiswa kwephasi zombebele esele kulikhulu leminyaka lathoma begodu kubonakala kusazokuragela phambili. Ngokwemvelo izinga lokutjhiswa likghona ukuzilawula ukuze ipilo ikghone ukuragela phambili ngendlela efaneleko. Esole kubonakala amalanga la, kukobana ephasini mazombe nakutjhisako kusuke kutjhiswe ngokweqileko kanti nakuthi kuba makhaza, kuba makhaza okubabazekako. Ukutjhuguluka kobujamo bezulobu kubangelwa zizinto ezinengi ezihlukahlukene ezifaka hlangana, imisebenzi eyenziwa babantu nesele iyipilo kibo begodu kubangelwa namatjhugutjhuguluko wemvelo ngokwayo.

Iindawo ezimagegana namalwandle ezisekugcineni kwephasi zikhqiza umoya osilaphazekileko nowenza bona umtjhiswo wephasi ungasaba namandla wokuzilawula. Omunye unobangela wokutjhuguluka kobujamo bezulu ziindawo zemvelo ezisilongwe. Kileziindawo akumili litho begodu nephasi alikghoni ukuphefumula. Umoya ophuma kileziindawo ubizwa ngokuthi yimethayini begodu uyingozi khulu ebhodulukweni. Unobangela omunye kukobana iphasi lisemzombeni wetjhuguluko lobujamo bezulu, ngokujayelekileko obuthatha iminyaka eziinkulungwana ezima-40 000.

Iindlela yokuziphatha kwabantu ngiyo ebanga umtjhiswo wephasi mazombe lo. Iinsalela neentuthu eziphuma lokha abantu nabatjhiswa izenziwa ezifana namalahle nofana i-oli ehlaza kubanga ukusilaphazeka ebhodulukweni. Izenziwa nazitjhako zikhupha umoya osilaphazekileko obizwa bona yikhabhondayi oksayidi, okumumoya oyingozi khulu ebhodulukweni. Ukwenziwa kwamalahle ne-oli ehlaza nakho kwenza imethayini iphume ngaphasi komhlaba lapha ivaleleke khona bese iba yingozi emkayini. Imethayini mumoya ovele ukhona ngaphasi kwelihla lehlabathi, ye-ke nakwenziwa amalahle ne-oli kutjhingwa khulu phasi bekufikelelwe lapha imethayini ikhona bese iphumela emoyeni.

Okhunye okungunobangela omkhulu womtjhiswo wephasi mazombe bunengi obukhulu babantu ephasini. Ubunengi babantobu butjho bona ukudla nakho kumele kube kunengi begodu neentuthu ezisetjenziswako nazo zimele zibe zinengi. Ukusetjenziswa kweentuthu ngobunengi kwenza nemethayini ibe yinengi ngombana iibaseli ezisetjenziswa ziinthuthu zidlala indima ekuyandiseni. Umsuqwa weenlwana esiwusebenzisela ukuvundisa iintjalo zethu nawo ubanga imethayini. Nawungathi uyatjhejisisa zoke lezizinto ezibanga imethayini neyingozi khulu emtjhisweni wephasi mazombe zizinto esingekhe sazibalekela ngombana ziyingcenywe yobuphilo bomuntu.

Umbuzo ngothi ingabe umtjhiswo wephasi mazombe uyenzeka kwamambala na? Iye, uyenzeka kwamambala ngombana sele kunamatshwayo amanengi abonakalako nabangela ukutjhuguluka kobujamo bezulu. Amazinga wokutjhisa sele akhuphuke ngama-*degree celcius* ayi-0,8 ephasini mazombe ukusuka eminyakeni ye-1880. Amazinga sele akhuphuke ngokubuyelelwe kabili eenarheni ezinerhwaba elinengi ezifaka hlangana, itjhingalanga yeCanada, ipumalanga yeRussia, iGreenland ne-Alaska.

Ukulwisana namatjhuguluko alethwa mtjhiswo wephasi mazombe la, iphasi loke labuthana eThekwini esifundeni sakwaZulu-Natal ngomnqopho wokuzama ukubonisana ngeensombululo zomraro lo. Elangeni lokuthoma loMbutano we-COP17 owawubanjwe ekupheleni komnyaka we-2011, umNyango wezokuThuthukiswa komNotho, iHlangano eThuthukisa amaBubulo nokubambisana nebululo elizijameleko labakwa-Eskom zasungula isikhwama sokusekela ngeemali ngokusebenzisa iPhrojekthi ye-*Langa Life*. Umnqopho wePhrojekthi ye-*Langa Life* kubuthelela imali yeemfuthumezi zamanzi atjhiswa lilanga. UWelcome Mdabe, omunye wamalunga ebekakhambele umbuthano lo, uthethe iimfuthumezi ezifuthumeza amanzi ngamandla welanga zizokuba lisizo elikhulu ezakhamuzini zephasi mazombe. Ungezelele wathi, ukuthatha isiqunto esiphephileko kuzokwenza umehluko ekutjhugutjhugulukeni kobujamo bezulu esikhathini eside esizako. Ezakhamuzini, iimfuthumezi zamanzi ezisebenza ngamandla welanga zitjho bona angeze zisafuthumeza amanzi ngomlilo weenkuni namtjhana amalahlwe, ekuyinto engabangela amalwele afana nenyumoniya nobulwele besifuba. Ukutheza nokubasa iinkuni kulimaza ibhoduluko ngombana kubangela ukutjhabalala kwamahlathi. Intuthu ebangwa kubaswa kweembawula neentofu iyingozi khulu nayo ebhodulukweni.

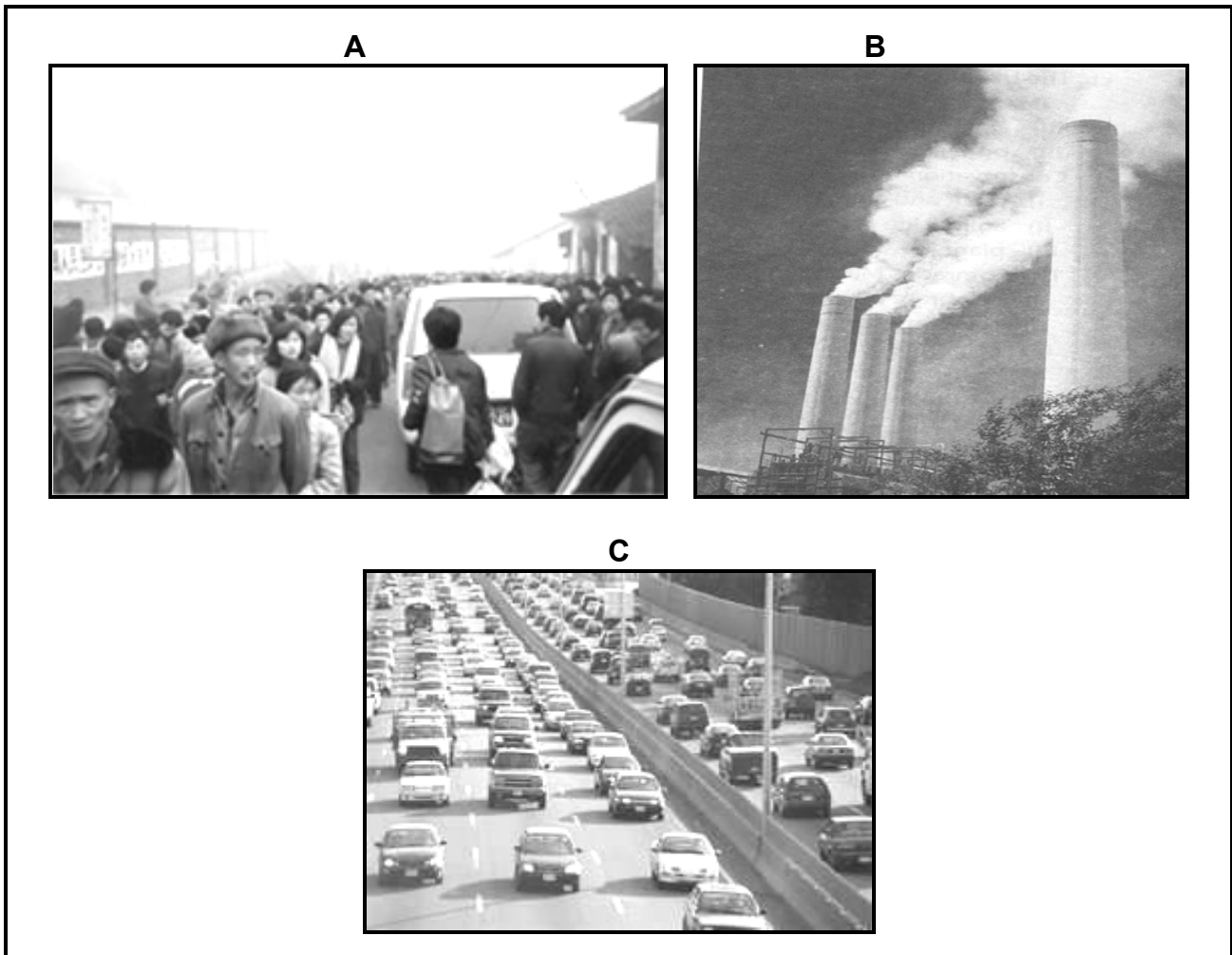
Ukulwisana nomraro lo uRhulumende weSewula Afrika ugandelela bona abantu abasebenzise iinthuthi zomphakathi nokukhambisana ngeenqhema nabaya emisebenzini kunokobana omunye nomunye asebenzise ikoloyakhe. Amabubulo amanengi wenarha le neenarheni mazombe azibophelele ekukhiqizeni iinkoloyi ezingasazokusebenzisa iimbaseli ezifana ne-oli nepetroli kodwana ezizokukhamba ngegezi. Embuthanweni we-COP17 kuvunyelenwe nangokuthi igezi ingasaphehlwa ngamalahle kodwana iphehlwe ngamanzi nangesiphila. Okhunye okungenziwa ukulwisana nomtjhiswo lo kutjalwa kwemithi ngobunengi ngombana imithi ikhiqiza i-oksijini esiyiphefumulako begodu ikghona nokulwisana nomtjhiswo omkhulu lo.

[Irhujululwe ku-[www.wikipedia.org/wiki/globalwarming](http://www.wikipedia.org/wiki/globalwarming), yatjhugululelwa esiNdebeleni]

- 1.1.1 Ukutjhisa kwephasi mazombe ekukhulunywiswa endatjaneni engehla sekunesikhathi esingangani kwathoma ukwenzeka? (1)
- 1.1.2 Tlola amagama AMABILI wemimoya asetjenziswe ethekstini engehla ahlathulula umoya osilaphazekileko ophuma eembaselini ezifana namalahle, i-oli ehlaza nezinye. (2)
- 1.1.3 Umbuthano we-COP17 wawubanjelwe kiliphi idorobha? (1)

- 1.1.4 Ngiyiphi indima ekulu edlalwa mimithi emaphilweni wabantu? (2)
- 1.1.5 Tlola ngokurhunyeyiweko indlela imetheyini engaphasi komhlaba egcina iphumele ngayo emkayini nakwenjiwa amalahle. (2)
- 1.1.6 Ngelwazi onalo hlathulula bona kubayini eendaweni ezisilongwe kungakghonakali bona kube nezinto ezimilako. (2)
- 1.1.7 Ucabanga bona ukukhiqizwa kokudla ngobunengi kuwubanga njani umraro womtjhiswo wephasi mazombe? (2)
- 1.1.8 Kubayini kungasilula bona abantu bahlukane nokusebenzisa izinto ekuthiwa zingunobangela womtjhiswo wephasi mazombe. (2)
- 1.1.9 Khetha ipendulo ekungiywo kezingenzasi uqedelele umutjho olandelako.
- Umnqopho wePhrojekthi ye-*iLanga Life* ku ...
- A bhinqela ukubanjwa kombuthano wephasi mazombe we-COP17.
- B buthelela imali yeemfuthumezi zamanzi atjhisiswa yigezi.
- C buthelela imali yeemfuthumezi zamanzi atjhisiswa lilanga.
- D pha izakhamuzi imali yokuthenga iimfuthumezi zamanzi atjhisiswa malahle. (1)
- 1.1.10 Phendula umbuzo ongenzasi ngo**Liqiniso** nofana **Akusiliqiniso** bese usekela isiqunto osithetheko.
- Umbuthano we-COP17 gade ukhanjelwe babantu benarha yeSewula Afrika kwaphela. (1)
- 1.1.11 Ngokubona kwakho ungathi umbuthano we-COP17 uzokuba nomthelela kangangani ekulwisaneni nomtjhiswo wephasi mazombe okhulunyiswa endatjaneni? Ipendulwakho ayibe mumutjho OWODWA. (2)
- 1.1.12 Ngokwendatjana engehla le kuthiwa ukubaswa kweembawula neentofu kunomthelela omkhulu womtjhiswo wephasi mazombe. Ngokwazi kwakho ingabe isese khona na imiphakathi esabasa iimbawula begodu umNyango wezokuHlaliswa kwabantu newezeNjiwa naMandla ungayisiza njani ekuqedeni umraro lo? (2)

## 1.2 Qalisisa isithombe esingenzasi bese uphendula imibuzo elandelako.



- 1.2.1 Tlola unobangela wentuthu ebonakala esithombeni B. (1)
- 1.2.2 Ngiyiphi imihlobo yamalwele engabangwa kurhogela iintuthu eziphuma eenthombeni B no-C. Tlola ibe MIBILI. (2)
- 1.2.3 Tlola bona intuthu ebonakala esithombeni B le iphelelaphi. (1)
- 1.2.4 Ucabanga bona ngikuphi okungenziwa ukuphungula ubujamo obuyingozi obubonakala eenthombeni A no- B? Tlola ipendulo EYODWA ebujameni ngabunye. (4)
- 1.2.5 Nasiyelela okubonakala eenthombeni ezingehla nokutjiwo ethekstini kubonakala izezo zabantu zingunobangela omkhulu wokurhagala komtjhisu wephasi mazombe. Nawungaba nguNgqongqotjhe wezeNjiwa naMandla weSewula Afrika, akhe utlole bewuhlathulule ihlelo ongaliletha ebahlalini benarha le elingabenza bona babenelwazi leensetjenziswa ezinganabungozi ebhodulukweni bebakhuthalele nokuzisebenzisa. (2)

**IMITLOMELO YESIGABA A: 30**

**ISIGABA B: UKURHUNYEZA****UMBUZO 2**

Fundisisa itheksti engenzasi bese uyirhunyeza ngokwemiyalo elandelako:

**IMIYALO:**

1. Ngamagama angadluli kwama-70, rhunyeza uveze amaphuzu ali-7 nofana indima ngeenqabo abafundi abangahlangabezana nazo ngomnyaka wokuthoma emazikweni aphakemeko wezefundo.
2. Nangabe utlole imitjho, nombora imitjhwako kusukela kewoku-1 bekufike kewe-7.
3. Umotjho owutlolako awube nomqondo OWODWA.
4. Tlola ngelimi elitsengileko ngombana uzokwabelwa imitlomelo emi-3.
5. Sebenzisa amagamakho, ungabuyeleli utlole njengombana kutloliwe endatjaneni.
6. Tlola inani lamagama owasebenzisileko ekupheleni kwesirhunyezo sakho.

**IINQABO ABAFUNDI ABAHLANGABEZANA NAZO EMAZIKWENI  
APHAKEMEKO WEZEFUNDO.**

Ukuba mfundi omotjha ezikweni eliphakemeko lezefundo kusitjhijilo esikhulu ngombana kunomehluko phakathi kwepilo yesekhondari neyezikweni eliphakemeko lezefundo. Into elula njengokwakha isikhozi, kuba yinto ebudisi khulu nawufika kilamaziko nangabe awusimumuntu ojayela abantu lula. Ongakwenza kukobana uphume epilweni oyijayeleko uthome ukukhuluma nabantu. Kungenzeka bona uqede pheze iveke yoke ungayi ngetlasini ngonobangela wokungazi itlasi ofanele ungenele kilo. Imakhiwo yakhona minengi khulu begodu angeze wakghona ukuyijayela msinyana ngaphandle kobana kube nomuntu okukhombisa yona. Kuqakathekile bona ungatjhugululi ubuwena bakho ngombana nalokha sele unomraro angeze usabona bona unawo, kodwana uzakubona kwanga kungendlela ekufanele kube ngayo.

Ukuzibandakanya nabantu nawusezikweni lefundo ephakemeko kungumasizabulale ngombana kungakwenza bona uphumelele nofana ungaphumeleli eemfundweni zakho. Ukugandeleleka ngokomkhumbulo kuba kunengi lokha nawuphila uwedwa, ye-ke nangabe awubatholi abangani abalungileko thintana nabekhenu ngaso soke isikhathi. Inengi labafundi emazikweni aphakamileko liba nomraro ngehlangothini lezokuvikeleka ngombana lisuke likude nababelethi babo. Kuba lula bona ukhohliseke ugcine sele uzinikele eendakamizweni ngebanga legandelelo labangani ngombana ufuna ukwamukeleka. Ungazifumana ungaphumeleli eemfundweni zakho ngebanga lokuzithabisa ipelaveke enye neny.

Ilimi lesiNgesi, nekungilo elisetjenziswa khulu emazikweni la lingaba siqabo eentweni ezinengi, khulu khulu nabegade ungakajayeli ukulikhuluma lokha nawungasisesikolweni. Lokho kukwenza usabe nokubuza la ungazwisi khona ngombana ubona kwangathi abanye abafundi nanyana utitjhere bazakuthatha kwanga usidlhayela. Ilwazi letheknoloji liba mraro ngombana pheze yoke imisebenzi efunekako yenziwa ngekhomphyutha. Ibelo ekugijinywa ngalo nakufundwako liba mraro ngombana uthola bona isifundo esisodwa esingaba makhasi wencwadi ama-75 senziwa ngamalangana nje kwaphela. Nangabe awubuyekezi iifundo enizenze ngalelo langa qobe ngantambama, uzabe uzakhela indlela ehle yokungaphumeleli eemfundweni zakho. Ukungabuzi imibuzo nawungazwisisiko uzitjele bona ilwazi uzazitholela wena, ngomunye unobangela ongakwenza ungaphumeleli. Nawuphumelele bewafika emazikweni aphakemeko wezefundo qinisekisa bona uyazimisela, uzifundise ukuba nobuntu kodwana ungakhohlwa ukukhupha amehlo esikhunjani.

[Isuselwe kuma-inthavyu nabafundi beYunivesithi yangePitori]

**IMITLOMLO YESIGABA B: 10**



**ISIGABA C: IHLELO NOKUSETJENZISWA KWELIMI**

**UMBUZO 3**

Qalisisa isikhangiso esingenzasi bese uphendula imibuzo elandelako.

**ISIKHANGISO**

**SEBENZISA ISEZESO SAKWA-POND'S UBE NOMEHLUKO NGENMVA KWAMALANGA ALI-7...!**



Hlamba ubuso ngesibha esimamanzana sakwa-Pond's, zesule ngedugwana yokuzesula enamanzana wethowuna bese uezesa ngemoyistjharayiza ukuze ubone umehluko msinyana.

**Yeleya:** Nange isikhumba sakho singamotjhakala ngokungalandeli imilayelo ngefanelo awukazukuncatjezwa.

- 3.1 Tlola amaphuzu AMANE akhombisa bona abanikazi besikhangiswesi balandele amaqhinga afaneleko wokukhangisa. (4)
- 3.2 Nange uthenge umkhiqizo wakwa-Ponds wawusebenzisa wangabona umehluko ngemva kwamalanga ali-7, uzokuthi abanikazi bomkhiqizo lo basebenzise mhlobobani welimi esikhangiswenesi? (2)
- 3.3 Tlola umqondo o lethwa lilimi elisetjenziswe bakhangisi bomkhiqizo wakwa-Pond's ngebinzana lamagama athi; "Sebenzisa izezeso sakwa-Pond's ube nomehluko ngemva kwamalanga ali-7." (2)
- 3.4 Abakhangisi bemikhiqizo banamaqhinga abawasebenzisako wokukhangisa ukwenzela bona abathengi bakholwe bona imikhiqizo yabo iyasebenza. Akhe utshwaye ngelihlo elihlabako iqhinga obona kungilo elingadosa abantu ngobunengi bazifumane sele bawuthengile umkhiqizo lo. (2)

**[10]**

**UMBUZO 4**

Qalisisa ikhathuni engenzasi bese uphendula imibuzo elandelako.

**IKHATHUNI**

- 4.1 Abantu abasekhathunini le bakuyiphi indawo? (1)
- 4.2 Khuyini okuphethwe ngubaba lo ngesandla? (1)
- 4.3 Ngokuqalisisa ikhathuni engehla ungathi umma lo usebujameni obunjani? (1)
- 4.4 Ikulumo kababa lo ethi, "Sakubiza, wangeza!" isitjelani ngomma lo? (1)
- 4.5 Khetha ipendulo ekungiyi kezingenzasi.  
Into eyenza umntwana lo ajamele kude kangaka kukobana uthukiwe ngombana ...
- A abantwaba bafuna ukumbetha.  
B ulahlekelwe ziincwadi zakhe zesikolo.  
C uyazi bona ufeyilile.  
D ubethe omunye umntwana. (1)
- 4.6 Ingabe amagama kamma lo athi "Ufeyile njani, Ahlakaniphile nje?" akulethela wuphi umqondo ngomntwanakhe lo? Sekela ipendulwakho ngephuzu ELILODWA. (2)
- 4.7 Ucabanga bona ngikuphi ongakwenza ukurarulula ubujamo obubonakala ngehlobu ukwenzela bona woke umuntu aneliseke? Ipendulo ayibe liphuzu ELILODWA. (1)
- 4.8 Tsomula amagama asisitjho asetjenziswe ekhathunini engehla bewunikele nehlathululo yaso uyingqophise ebujameni obubona ngehla. (2)

**[10]**

**UMBUZO 5**

Funda itheksti engenzasi bese uphendula imibuzo.

KwakungoMvulo nangisuka ekhaya ngiya kwamalume eSiyabuswa ngiyomtjela bona kwethu kunomnyanya. Ngathi nangiphuma ekhaya umma wabuyelela wathi kimi ngingalibali ukutjela umalume bona ubaba ugcine alungise koke. Udadwethu omkhulu, umma nakatjho njalo, watjho bona nakanjani umalume nakezako ngomqgibelo angatjhiyi abantwabakhe. Phela umnyanya lo ngewequde lakamaswaphela wekhaya uBathabile owabasafunda ibanga letjhumu kodwana ngokubona bona umnyaka olandelako kungenzeka aziphethe iifundo zakhe, ubaba wakhetha ukumdlulisa kilowo mnyaka. Soke sasingafuni bona uBathabile ariyade ekurageleni phambili ngesikolo ngombana bekabonakala bona uhlakaniphile begodu kukhona afuna ukuba ngikho epilwenakhe. Phela bathi umfundisi akambelethi umfundisi ngombana ubaba nomma bona bebangakayi ndawo ngefundo.

Mbala ngaphuma ngalibangisa eSiyabuswa la bekwakhe khona umalume. Lathi naliyokuhloma ihloko, ibhesi ebengikhamba ngayo besele ibandamele emizini yangeSiyabuswa. Bengifisa ngathana ngifika ilanga lisakhanya ngikwazi ukuyokukha isiphila ngilale ngisidlile njengombana ekhaya besiyivela kancani.

- 5.1 Buyelela utlole umutjho ongenzasi bese kuthi esikhundleni segama elithalelweko utlole isirhunyezo salo.  
KwakungoMvulo nangisuka ekhaya ngiya kwamalume eSiyabuswa ngiyomtjela bona kwethu kunomnyanya. (1)
- 5.2 Ngokuyelela imithetho yokutlola nokupeledwa kwamagama tlola igama elithalelweko ethekstini engehla ngendlela efaneleko. (1)
- 5.3 Buyelela utlole umutjho ongenzasi kuthi isenzo esisetjenzisiweko siveze umqondo wokuvuma kodwana singlarhli isikhathi saso.  
Soke sasingafuni. (1)
- 5.4 Emutjhweni ongenzasi tsomula isenzo esisendleleni esabizo wakhe ngaso umutjho ozitlamele wona.  
Ngathi nangiphuma ekhaya umma wabuyelela wathi kimi ngingalibali ukutjela umalume bona ubaba ugcine alungise koke. (2)
- 5.5 Tlola iinkhekhe zekulumo ezimumethwe libizoqarha/libizomvango elithalelweko emutjhweni ongenzasi.  
Watjho bona nakanjani umalume nakezako angatjhiyi abantwabakhe. (2)
- 5.6 Tlola umqondo omumethwe silungelelo esithalelwe esenzweni esisemutjhweni ongenzasi.  
Soke sasingafuni bona uBathabile ariyade ekurageleni phambili ngesikolo ngombana bekabonakala bona uhlakaniphile. (1)
- 5.7 Tsomula amagama asisaga asetjenziswe ethekstini engehla uzakhele wakho umutjho ukhombise bona uyayazi ihlathululo yaso. (2)

**[10]**

**IMITLOMELO YESIGABA C: 30**  
**INANI LOKE: 70**