AEQUAM SERVARE MENTEM

Sastri College

Isikhungo SeziLimi
IsiZulu Ulimi Lokuqala Lokwengeza
Isivivinyo sikaNdasa (March Exam- 2020)

IBANGA LESISHIYAGALOMBILI (GRADE 8)

Umhleli: Z.Nzama
Umcubunguli: N.Z Zondi

Umklomelo: 35
Isikhathi: Ihora eli-1

IMIYALELO

1. Iphepha linamakhasi ayi- **6.**
2. LineziQEPHU EZINTATHU
   - **ISIQEPHU A: Isifundo sokuqondisisa . (15)**
   - **ISIQEPHU B: Ukufingqa. (05)**
   - **ISIQEPHU C: Uhlelo lolimi. (15)**
3. Phendula ngolimi ohlolwa ngalo.
4. Qala isiqephu ngasinye ekhasini **ELISHA.**
5. Bhala ngobunono nangesandla esicacile.
6. Qaphela isipelingi nokwakheka kwemisho.

ISIQEPHU A: ISIFUNDO SOKUQONDISISA.

UMBUZO 1

Funda indatshana bese uphendula imibuzo ezolandela.

AMALUNGELO NENKULULEKO YESINTU

Amalungelo esintu abekwe ngokugqamile eMthethweni sisekelo . Ayavela esandulelweni lapho kubekwe khona ngokusobala injongo yokudala umphakathi osekelele entandweni yeningi, ubulungiswa empilweni yomphakathi , kanye namalungelo esintu ayisisekelo.

Esahlukweni sokuqala , amalungelo esintu avela eMgomenisisekelo wokuqala weNingizimu Afrika ophathelene nalokhu: " Isithunzi sobuntu, ukulingana kwabo bonke abantu kanye nokuthuthukiswa kwamalungelo nenkululeko yesintu. Kulo Mgomo, imininingwane ephathelene nala malungelo yethulwe ezingxenyeni ezingama- 35 esahlukweni sesi- 2.

Phakathi kwamalungelo okukhulunywa ngawo kulo Mgomo, kukhona aqondene nokulingana kwabantu, inkululeko yokukhuluma nokuzihlanganisa nabanye abantu nokukhululeka, amalungelo ezepolitiki nawobunini bempahla, ukuba nendlu yokulala, ukunakekeleka mayelana nezempilo, imfundo, ukufinyeleae emthonjeni yolwazi kanye nokufinyelela ezinkantolo.

Kufanele ukuba, ambalwa amazwe lapho amalungelo aseMthethweni sisekelo okukhulunywa ngawo khona kangaka empilweni yabantu bomphakathi neyangasese, futhi akukaze kube khona kungabaza mayelana nokuvivinywa kwemigomo nezincazelo zoMthetho Wamalungelo ezinkantolo zoMthethosisekelo.

Eminye iMigomo okwakhelwe phezu kwayo uMthethosisekelo ibeka ngokusobala ukuzimisela kweNingizimu Afrika ukwakhela phezu kwesisekelo sokulingana kwabantu, umthetho kanye nentando yeningi. Leyo Migomo emithathu yilena:

- Ukungacwasani nokwebala nangokobulili.
- Ukubaluleka koMthethosisekelo kanye namandla omthetho.
- Ilungelo lokuvota lawo wonke umuntu ofanelekile ngokweminyaka yobudala.

1.1 Chaza ukuthi liyini ilungelo? **(2)**

1.2 Yisho amalungelo amabili ocabanga ukuthi unawo njengomfundi. **(2)**

1.3 Aphathelene nani amalungelo esintu avela eMgomwenisisekelo waseNingizimu Afrika. Yisho okubili. **(2)**

1.4 Zingaki izingxenye okuthulwe kuzona imininingwane ephathelene namalungelo. **(1)**

1.5 Caphuna amalungelo amabili okukhulunywe ngawo kulesi siqephu **(2)**

1.6 Kusizaphi ukwazi ngamalungelo? **(1)**

1.7 Chaza lezi zimo zokukhuluma njengoba zisetshenzisiwe endabeni:

1.7.1 Ukubeka ngokusobala. **(2)**
1.7.2 Ukucwasana ngokwebala. **(2)**

1.8 Khetha impendulo efanele ngezansi:

Umuntu okufanele avote umuntu oneminyaka:

A) Engamashumi amabili,
B) Eyishumi nesishiyagalombili
C) Eyishumi nanhlanu. **(1)**

[15]

ISIQEPU B: UKUFINQA
UMBUZO 2

Funda isiqeshana ngezansi bese usifingqa ngamagama ayishumi nanhlanu kuya kwangamashumi amabili (**15-20**)

Umhlaba uya uphenduphenduka ngokuphazima kweso. Ubuchwepheshe buthuthuka ngesikhulu isivinini. Zolo lokhu bekuyinto enkulu ukuhamba ngebhasi uma uya edolobheni. Kuthe ngokuhamba kwesikhathi kwagcwala amatekisi yonke indawo. Lokhu kwadala ukuthi banciphe abantu abathanda ukuhamba ngamabhasi ngoba bethi ayatotoba. Emadolobeni amakhulu sibuye sashintsha lesi simo ngenxa yokufika kohlobo olusha lwamabhasi amahle futhi ahamba emizileni ekhethekile. Kuningi okusazoqhamuka ngempela kwezokuthutha. Impela umuntu ufunda aze afe.

[5]

ISIQEPHU C: UKUSETSENZISWA KOLIMI
UMBUZO 3

3.1 Lungisa imisho engezansi ukuze ifundeke kahle.

3.1.1 UMvelo (hamba) ngesihlalo samasondo. **(1)**

3.1.2 Izingane (khuza) uBhilikida. **(1)**

3.1.3 Uthisha (funda) izingane. **(1)**

3.2 Faka isihlanganiso esifanele ngezansi:

3.2.1 Udokotela ulapha iziguli.
Udokotela akanazo izincwadi zokulapha.(kodwa) **(2)**

3.3 Funda isiqeshana ngezansi bese uphendula imibuzo ezolandela

Ukuvalwa kwezinkambo **zabafundi** kuzokhinyabeza ingxenye yezifundo ngandlela thize . Kwesinye **isikhathi** abafundi **abahambi** bodwa beyoncintisana nezinye izikole kwezemidlalo **noma** ezinkulumweni mpikiswano. Basuke **bevakashele** izimboni ukuyothekela ulwazi .

3.3.1 Amagama abhalwe ngokugqamile ayiziphi izingcezu zenkulumo. **(4)**

3.3.2 Nciphisa amagama alandelayo:
3.3.2.1 Ingxenye. **(1)**
3.3.2.2 Izimboni. **(1)**

[4]

UMBUZO 4

4.1 Bukisisa isikhangiso bese uphendula imibuzo ezolandela.

Ikhasi lesi- 6 kwayi - 6

4.1.1 Simayelana nani lesi sikhangiso? **(1)**

4.1.2 Yiliphi iphephandaba elikhiphe lesi sikhangiso? **(1)**

4.1.3 Caphuna amazwi angesilona iqiniso kulesi sikhangiso. **(1)**

4.1.4 Sebenzisa igama, 'ilanga' liveze umqondo ohlukile kunalona osesikhangisweni. **(2)**

4.1.5 Bhala inani lemali ezowinwa. **(1)**

[6]

AMAMAKI ESIQEPHU C: [15]

AMAMAKI ESEWONKE: [35]

SASTRI COLLEGE
DEPARTMENT OF MATHEMATICS
GRADE 8
MARCH CONTROLLED TEST 17.03.2020
MARKS : 50 DURATION : 1 HOUR

INSTRUCTIONS:

1. The use of a calculator is NOT PERMITTED.
2. The paper consists of 2 printed pages and 6 questions.
3. Answer ALL questions. Show all working details.
4. Indicate the initials of your math educator on your answer sheet.

QUESTION 1 [11]

1.1. Some of the factors of 24 are given below.
Answer the questions that follow.

$$F_{24} = \{1; 2; 3; 4; 6; 12; 24\}$$

1.1.1 Provide the missing factor. 1
1.1.2 List the prime factors of 24. 1
1.1.3 Select the composite factor(s) of 24 that are less than 5. 1
1.1.4 Give the first 3 even multiples of 24. 1

1.2. Use PRIME FACTORIZATION to answer the following questions.

1.2.1 Determine the HCF and LCM of 60 and 150. 4

1.2.2 $\sqrt{4624}$ 3

QUESTION 2 [10]

Simplify each of the following:

2.1 $-3 - 4 + 8 - 2$ 1

2.2 $(3 \times 2)^2 - (3 + 2)^2$ 3

2.3 $\dfrac{-2^3}{(-1)^{14}}$ 3

2.4 $\sqrt[3]{\sqrt[3]{8} + 25}$ 3

QUESTION 3 [6]

Study the algebraic expression and answer the questions that follow.

$$-\frac{a}{2} - 14 + 5a^3 - 3a^4 + 4a^2$$

3.1 How many terms are in the above expression? 1
3.2 Write down the constant. 1
3.3 What is the coefficient of a? 1
3.4 Arrange the expression in descending powers of a. 1
3.5 Determine the value of the expression if $a = 0$. 2

QUESTION 4 [4]

Complete the following Input and Output tables.
(Do not redraw the tables)

4.1. 2

INPUT	m	2	6	*(4.1.2)*
OUTPUT	n= 2+ m	4	*(4.1.1)*	20

4.2. 2

INPUT	m	-3	0	*(4.2.2)*
OUTPUT	n= 5 m	-15	*(4.2.1)*	25

QUESTION 5 [12]

SIMPLIFY

5.1 $d + d + d$ 1

5.2 $d \times d \times d$ 1

5.3 $a + 2a - 4a + 6a - a + 3m$ 1

5.4 $\frac{2xy}{2}$ 1

5.5 $(2p \times qr) + (3p \times 3qr)$ 3

5.6 Subtract $-2p - 4m$ ***from*** $-2p + 3m + 4r$ 2

5.7 Add: $-2a + 3$; $-4a + b$; $-2b - 4$ 3

QUESTION 6 [7]

6.1 Two boxes have a total of 120 sweets. If 15 sweets are removed from the first box and are placed in the second box, the first box has three times as many sweets as the second box. Find the number of sweets that originally were in the first box. 4

6.2 Casper is p years old.
Write a mathematical expression for each of the following:

6.2.1 How old will he be in 2 years time? 1

6.2.2 How old was he last year? 1

6.2.3 How old would he be in p years time? 1

TOTAL:50
☺GOOD LUCK☺