

education

Department: Education **REPUBLIC OF SOUTH AFRICA**

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

EXEMPLAR 2008

MARKS: 150

1

I.

TIME: 3 hours

This question paper consists of 13 pages and 2 annexures.

Please turn over

INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of SEVEN questions. Answer ALL the questions.
- 2. QUESTIONS 7.3.1 and 7.3.2 must be answered on ANNEXURES A and B which are attached. Write your name/examination number in the spaces provided and hand in the ANNEXURES with the ANSWER BOOK.
- 3. Number the answers correctly according to the numbering system used in this question paper.
- 4. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise.
- 5. ALL the calculations and steps must be shown clearly.
- 6. ALL the final answers must be rounded off to TWO decimal places, unless stated otherwise.
- 7. Start EACH question on a NEW page.
- 8. Write neatly and legibly.

QUESTION 1

1.1	Calculate the following:					
	1.1.1	370 + 24,8 × 20		(2)		
	1.1.2	$\frac{1}{2}(23+11)-11$		(2)		
	1.1.3	$\frac{2}{3}$ of 120 km		(1)		
	1.1.4	23% of 200 sheep		(2)		
1.2	Do the foll	lowing:				
	1.2.1	Write 0,15 as a percentage.		(1)		
	1.2.2	Write $\frac{1}{25}$ as a decimal.		(1)		
	1.2.3	Simplify: 60% : 12%.		(2)		
	1.2.4	Increase R400 by 10%.		(2)		
1.3		baked 48 scones to sell at a school bazaar. her grandmother's recipe, which was not in its.	Scones (makes 12)			
	Tandeka s	old the scones for R1,20 each.	INGREDIENTS 8 oz flour			
			$1\frac{1}{2}$ oz butter			
			 ¹/₄ pint milk 1 ¹/₂ tablespoons sugar pinch of salt 			
	1.3.1	Convert 8 oz to grams. $(1 \text{ oz} = 30 \text{ g})$		(2)		
	1.3.2	Estimate how many $m\ell$ of salt is equivalent to	a pinch of salt.	(1)		
	1.3.3	Convert $\frac{1}{4}$ pint to millilitres (1 pint = 560 m ℓ)		(2)		
	1.3.4 Convert 430 °F to degrees centigrade (°C) using the following formula:					
		Temperature in °C = (Temperature	in °F – 32°) × $\frac{5}{9}$			
	Round off the answer to the nearest 10°.					

1.4

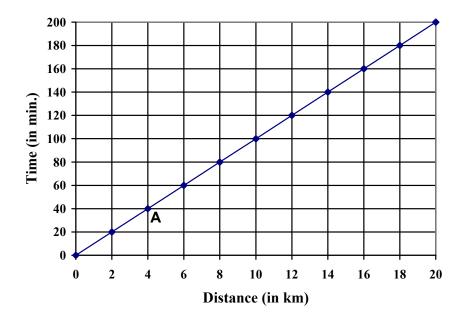
1.3.5	Calculate Tandeka's income if she sold all 48 scones.	(2)
1.3.6	Calculate how many scones Tandeka must sell in order to recover her costs of R36,00.	(2)
	rks at a car-wash. He earns a basic salary of R30,00 per day plus an R5,00 for every car that he washes.	
On Monda	y he washed three white, one blue and two red cars.	
1.4.1	Calculate how much he earned on Monday.	(3)
1.4.2	Determine the probability that the car he washed first on Monday was a blue car.	(2) [30]

QUESTION 2

2.1

The graph below shows Nabeelah's progress during a sponsored walk.

Sponsored Walk



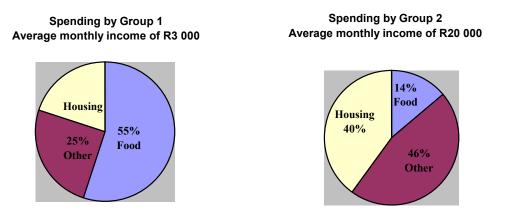
Use the graph to answer the following questions.

2.1.1	What was the total distance of the sponsored walk?	(1)
2.1.2	How many minutes did it take Nabeelah to do the following?	
	(a) Reach point A	(1)
	(b) Cover 10 km	(2)
	(c) Cover 15 km	(2)
2.1.3	Calculate the time (in hours) that Nabeelah took to complete the race. Round off the answer to ONE decimal place.	(3)
2.1.4	Determine Nabeelah's average walking speed in km/min.	
	Use the formula: Average speed = $\frac{\text{distance}}{\text{time}}$	(3)
2.1.5	Nabeelah completed the walk in 200 minutes. The winner completed the walk in 80% of Nabeelah's time.	
	Calculate the time taken by the winner to complete the walk.	(2)

2.2 Calculate:

2.2.1	The circumference of a circular flower bed having a radius of 12 m.	
	Use the formula: $\mathbf{C} = 2 \pi \mathbf{r}$, where $\pi = 3,14$	(2)

- 2.2.2 The area of a circular flower bed having a radius of 10 m. Use the formula: $\mathbf{A} = \pi \mathbf{r}^2$, where $\pi = 3,14$ (3)
- 2.2.3 The mass (in kg) of fertiliser needed for a circular flower bed having an area of 252 m² if 6,3 m² of the garden can be covered by 1 kg of fertiliser. (3)
- 2.3 The percentages of the monthly income of households in two income groups that were spent on food, housing and other expenses are represented in the two pie charts below.



2.3.4	Give examples of TWO types of expenses that could be considered as 'other' expenses.	(2) [30]
2.3.3	Calculate the actual amount spent monthly on housing by those in Group 2, based on the average monthly income.	(2)
2.3.2	Calculate the percentage that was spent on housing by Group 1.	(2)
2.3.1	Write down the average monthly income of each group.	(2)

2.2

QUESTION 3

In order to earn pocket money, Andile helps her father in his computer business every Saturday for six hours. She starts work at 07:30 and her father agreed to pay her R8,50 per hour.

Andile saves some of her earnings each Saturday for an outing to the movies with four friends.

Her budget for this outing is listed below:

5 return bus tickets to the movies cost R55,00.5 movie tickets cost R150,00.4 small snack packs and 1 large snack pack cost R138,00.

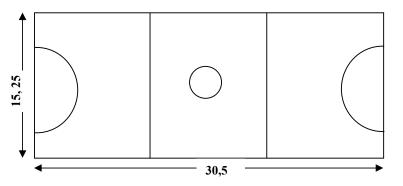
3.1	At what time does she finish work?		
3.2	Calculate how much she earns each Saturday?	(2)	
3.3	Calculate her total budgeted cost for the outing.		
3.4	What is the cost per person of a return bus ticket?	(2)	
3.5	One of Andile's friends has a movie membership card which allows her to receive a 10% discount per ticket.		
	What amount will Andile save on the cost of the 5 movie tickets if she uses this card to buy the tickets?	(2)	
3.6	What amount will she save on transport costs if her father offers to drive them back home after the movies?	(2)	
3.7	The cost of one small snack pack is R27,00. Calculate the cost of a large snack pack.	(3)	
3.8	A large snack pack consists of a choice of sweets (either Tumbles or Whispers or Smarties), 1 large box of popcorn and a choice of soft drink (either Fanta or Coke).		
	What is the probability of Andile choosing the following?		
	3.8.1 Smarties as one of the sweets	(2)	
	3.8.2 A milkshake as a drink	(2)	

[19]

QUESTION 4

Netball is a game played between two teams with seven players on each team. The rectangular netball court is divided into three equal sections with a centre starting circle and two semicircles at each end marking out the goal-shooting areas, as shown in the layout plan below.

The measurements on the diagram (not drawn to scale) are given in metres.



Star High School decides to build a grass netball court at their school and contracts Netball Incorporated to build the court.

4.1	Calculate the area of the netball court in m^2 . Use the formula: Area of rectangle = Length × Breadth	(2)
4.2	The cost per goal net is R24,80. Calculate the cost of TWO goal nets.	(2)
4.3	Lines will be painted on the netball court using grass paint.	
	A 1 ℓ tin of grass paint covers a surface area of 1,5 m ² and a 2 ℓ tin of grass paint covers a surface area of 3m ² .	
	Calculate the surface area that a 5 ℓ tin of grass paint can cover.	(2)
4.4	If it takes two workers one hour to paint the lines on the netball court, how many workers would be needed to complete the task in half the time?	(2)

4.5 An amount of R11 000 was needed to build the netball court. The school had to take a loan from the local bank at a simple interest rate of 17% per annum that would be repaid over a period of five years.

Calculate the amount of interest that the school would have to pay on the loan, using the following formula: $S.I. = P \times n \times i$ where S.I. = simple interest

P = the initial amount

$$n = time period$$

$$i$$
 = interest rate (3)

[11]

QUESTION 5

Mr Naidoo has been offered a promotion and has to relocate from Cape Town to Johannesburg.

Mr Naidoo obtained the following data on rainfall in Cape Town and Johannesburg to compare the climates.

	CAPE TOWN		JOHANNESBURG	
MONTHS	Monthly rainfall (in mm)	Number of rainy days	Monthly rainfall (in mm)	Number of rainy days
January	15	6	125	16
February	17	5	90	11
March	20	5	91	12
April	41	8	54	9
May	69	11	13	3
June	93	13	9	2
July	82	12	4	1
August	77	14	6	2
September	40	10	27	4
October	30	9	72	10
November	14	5	117	15
December	17	6	105	15
TOTAL	515	104	713	100

TABLE 1: Rainfall in Cape Town and Johannesburg in 2006

5.1 Answer the following questions:

5.1.1	Which city has the higher total rainfall?	(1)
5.1.2	Calculate the range in the monthly rainfall for Johannesburg.	(3)
5.1.3	In South Africa the summer months are November, December and January. Which of the two cities has mainly summer rainfall?	(1)
5.1.4	In which month(s) is the rainfall in Cape Town more than 80 mm?	(2)
5.1.5	What trend do you see in the monthly rainfall in Johannesburg from January to April?	(2)
5.1.6	Calculate the average number of rainy days per month in Cape Town. Give the answer correct to the nearest whole number.	(3)

5.2 The family will travel by car from Cape Town to their new home in Johannesburg. A map of South Africa, given in ANNEXURE A, shows the main routes linking different towns and cities in South Africa.

The numbers on the map indicate the route. Example: (1) on the map is the N1 route.

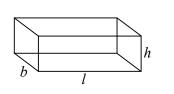
The distance table showing the shortest distance between some of the towns in South Africa is also given in ANNEXURE A.

Use the map or the distance table to answer the following questions:

5.2.1	Write down the grid reference for Cape Town.	(1)
5.2.2	Name TWO towns or cities on the N1 route linking Cape Town and Johannesburg.	(2)
5.2.3	In which general direction would the family be travelling from Cape Town to Johannesburg?	(1)
5.2.4	The straight line distance between Cape Town and Johannesburg on the map is 80 mm. Use the scale 1:16 000 000 to determine this distance in kilometres.	(3)
5.2.5	The family has the option of travelling to Johannesburg via Kimberley or Bloemfontein.	
	Name the routes they would follow to travel via Kimberley?	(2)
5.2.6	State the relative position of Kimberley with respect to Bloemfontein on the map.	(1) [22]

QUESTION 6

Most people in the Umgeni River catchment area have no direct access to potable (drinking) water. It was decided by the district authorities that every household should be supplied with a rectangular stainless steel tank with a volume of 2 000 000 cm³ in which to catch rain water.



The following table shows the dimensions of four different tanks, each one having a volume of $2\,000\,000\,\text{cm}^3$.

Tank type	Length in cm	Breadth in cm	Height in cm	Surface area in cm ²
Α	160	100	125	97 000
В	128	125	125	95 250
С	200	100	100	100 000
D	160	156.25	80	

TABLE 2: Dimensions of tanks with a volume of 2 000 000 cm³

In this question the following could be used:

```
Area of rectangle = l \times b
```

Surface area of a right rectangular prism = $2 \times [l \times b + l \times h + h \times b]$

Volume of a right rectangular prism = $l \times b \times h$

where l = length b = breadth and h = height

6.1 Write down the dimensions of the tank with the smallest surface area.

6.2 Calculate:

6.2.1	The area of the base of tank A in cm ²	(3)
6.2.2	The total surface area of tank D in cm ²	(4)

6.3 A supplier is prepared to construct water tanks at a cost of 1,2 cents per cm².

Calculate the cost (in rand) of constructing water tank B.

(2)

(3) [12]

QUESTION 7

The matriculants of Malendela High are planning a matric farewell function and have a choice between their school hall or the Central Hotel as a venue.

If their school hall is used, the caterers will provide the food and table decorations as well as the music, at a cost of R110 per person.

TABLE 3: Cost of using the school hall

THELE CT COSCOLU	sing the st	moor man				
Number of tickets sold	0	10	25	40	80	100
Cost in rand	0	1 100	2 750	4 400	8 800	11 000

The Central Hotel quotes a basic cost of R2 400 which covers the cost of the music and decorations. An additional charge of R50 per person for food will be levied.

TABLE 4: Cost of using the Central Hotel

Number of tickets sold	0	10	20	40	50	100
Cost in rand	2 400	2 900	3 400	4 400	4 900	7 400

7.1 Use TABLE 3 and TABLE 4 to answer the following questions:

7.1.1	Detern schoo	mine the total cost if 50 tickets are sold for the function in their l hall.	(3)
7.1.2	Write	down the following:	
	(a)	The number of tickets sold when the cost for the two venues is the same	(2)
	(b)	The corresponding cost	(1)
The total c	cost of l	niring the Central Hotel is given by the following formula:	
Tot	tal cost	= R 2 400 + (number of tickets × R50)	
Calculate	the num	aber of tickets if the cost is R8 400.	(3)
Use the gr	id prov	ided on ANNEXURE B to draw the following:	

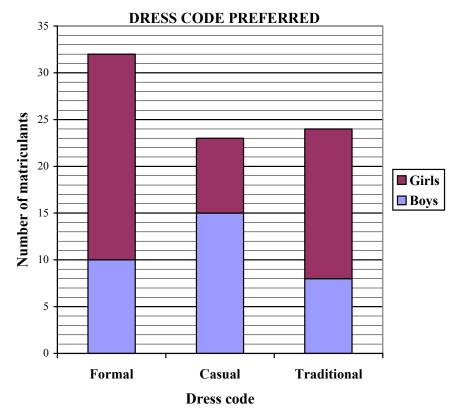
- 7.3.1A line graph using the data in TABLE 3. Clearly label the graph.(4)
- 7.3.2 A line graph using the data in TABLE 4. Clearly label the graph. (4)

7.2

7.3

7.4 The matriculants also need to decide on the dress code for the function. They conducted a survey amongst themselves to find out which is the preferred dress code.

> The results of the survey were illustrated on a compound bar graph which is shown below.



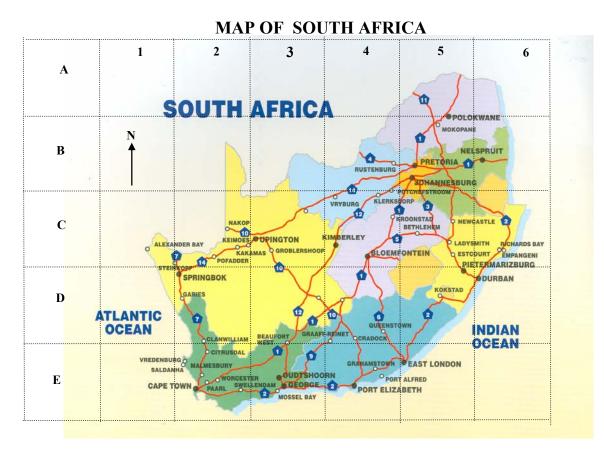
7.4.1	Which dress code was found to be the least popular:	
	(a) amongst the boys?	(1)
	(b) overall?	(1)
7.4.2	Which dress code was most popular amongst the girls?	(1)
7.4.3	How many boys preferred traditional dress?	(1)
7.4.4	How many girls preferred casual dress?	(2)
7.4.5	Calculate how many matriculants responded to the survey.	(3) [26]

TOTAL: 150

NAME/EXAMINATION NUMBER:

ANNEXURE A

QUESTION 5.2



Distance Table

ORTV	BEAUF	1	
 | | |
 | | | | |
 |
 | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
|------|---|---|---
--
---	---	---	--

---|---|---
--|---
---|--|--|--|--|--|--
---|--|--|--|--|--|---|---|--|--|--|--|--|
| TEIN | MFON | BLOE | |
 | | |
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 998 | OWN | APE T | C |
 | | |
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 219 | 779 | ERG | OLESB | C
 | | |
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 384 | 811 | 195 | OCK | CRAD
 | | |
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 667 | 1660 | 881 | 806 | BAN
 | DUF | |
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 575 | 1042 | 518 | 289 | 667
 | DON | TLON | EAS
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 764 | 436 | 545 | 481 | 1240
 | 630 | RGE | GEO
 | | | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 422 | 672 | 203 | 139 | 945
 | 388 | 342 | INET I
 | FF-RE | GRAA | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 570 | 873 | 370 | 175 | 796
 | 185 | 461 | 274
 | OWN | AMST | GRAH | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 417 | 1405 | 623 | 811 | 598
 | 992 | 1168 | 826
 | 987 | URG | NESB | JOHAN |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 175 | 960 | 284 | 493 | 842
 | 750 | 734 | 501
 | 654 | 467 | | |
 |
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 273 | 1272 | 498 | 674 | 689
 | 859 | 1043 | 701
 | 843 | 161 | 306 | ORP | RKSD
 | KL
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 670 | 1359 | 652 | 548 | 264
 | 409 | 985 | 687
 | 538 | 694 | 845 | 779 | STAD
 | KOK
 | | | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 210 | 1202 | 428 | 604 | 554
 | 785 | 977 | 1064
 | 780 | 207 | 329 | 120 | 672
 | STAD I
 | ROON | к | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 413 | 1084 | 522 | 731 | 1080
 | 988 | 972 | 739
 | 892 | 519 | 238 | 357 | 1083
 | 445
 | MAN | KURL | | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 436 | 1429 | 650 | 797 | 231
 | 748 | 1203 | 859
 | 877 | 367 | 566 | 447 | 345
 | 327
 | 804 | | ADYS | | | | | | | | | | |
 | | | | | | |
 | | | | | | | | | | | | | |
| 808 | 392 | 608 | 547 | 1306
 | 696 | 66 | 408
 | 497 | 1234 | 770 | 1082 | 1035
 | 1043
 | 1008 | 1267 | BAY | MOSSEL
 | | | | | | |
 | | | | | | | | | | | | | |
| 771 | 1779 | 964 | 1124 | 689
 | 1214 | 1509 | 1167
 | 1242 | 358 | | | 811
 |
 | | | 1.000 | NELSPRUIT
 | | | | | | |
 | | | | | | | | | | | | | |
| 714 | 422 | 495 | 451 | 1244
 | 689 | 63 | 312
 | 479 | 1130 | 1. | | 1048
 |
 | | 1.1.1.1.1.1 | 10000000 | OUDTSHOORN 1472
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | |
| | TEIN
998
219
384
667
575
764
422
570
417
175
273
670
210
413
436
808
771 | MFONTEIN 998 779 219 811 384 1660 667 1042 575 436 764 672 422 873 570 1405 417 960 175 1272 273 1359 670 1202 210 1844 413 1429 436 392 808 1779 771 | ERG 779 219 195 811 384 881 1660 667 518 1042 575 545 436 764 203 672 422 370 873 570 623 1405 417 284 960 175 428 1202 210 522 1359 670 428 1202 210 520 1084 413 608 392 808 964 1779 771 | BLOEWFONTEN CA 779 988 0CK 195 811 384 0CK 195 811 384 0CK 195 811 384 0CK 195 811 660 667 288 518 1042 575 481 545 436 764 175 370 873 570 873 674 498 1272 273 674 498 1272 273 548 652 1359 670 640 428 1202 210 7 650 1429 430 7 650 1429 430 7 650 1429 430 7 650 1429 430 14964 1779 771 </td <td>BLOENFONTION COLESBER 779 698 COLESBER 779 611 844 BAN 066 881 1660 667 667 289 518 1042 575 1240 481 545 436 764 945 139 203 672 422 946 139 203 672 422 945 139 203 672 426 945 139 203 672 427 958 811 623 1405 417 842 493 284 960 175 689 674 498 1202 210 554 604 428 1202 210 1006 731 522 1084 413 2130 797 650 322 808 10306 547 608 <</td> <td>BUCHENE UCLESE V 98 COLESE 193 193 COLESE 183 98 COLESE 183 38 COLESE 184 38 DUREAN 667 38 140 674 396 147 370 670 396 630 670 670 397 586 670 670 397 586 670 670 670 398 670 670 670 670 398 670 670 670 688 670 670 670 670 <</td> <td>BLOE HEINE BLOE HEINE CLESTER 98 CLESTER 98 CLESTER 98 CLESTER 98 CLASTER 98 CLASTER 866 81 667 CLASTER 866 81 667 CLASTER 866 81 667 GLASTER 866 81 667 GLASTER 686 81 646 GLASTER 686 81 646 GLASTER 686 686 686 686 686 686 686 686 686 686 686 686 686 686 <th <="" colspan="4" td=""><td>BLOWENCIPE USAN STATE GEO STATE <td>BLOEMFONTION BLOEMFONTION COLSENTION 988 COLSENTION 988 COLSENTION 779 219 CRADOCK 988 CRADOCK 888 686 811 686 EASTIONON 667 288 985 764 FFREINT 328 945 342 388 945 342 348 647 647 647 647 647 647 647 647 648 641 1675 342 342 342 342 342 342 343 345 345 345 345 345 345 345 <t< td=""><td>BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION</td><td>$\begin{tabular}{ c c c c } \hline \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$</td><td>BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<></td></t<></td></td></th></td> | BLOENFONTION COLESBER 779 698 COLESBER 779 611 844 BAN 066 881 1660 667 667 289 518 1042 575 1240 481 545 436 764 945 139 203 672 422 946 139 203 672 422 945 139 203 672 426 945 139 203 672 427 958 811 623 1405 417 842 493 284 960 175 689 674 498 1202 210 554 604 428 1202 210 1006 731 522 1084 413 2130 797 650 322 808 10306 547 608 < | BUCHENE UCLESE V 98 COLESE 193 193 COLESE 183 98 COLESE 183 38 COLESE 184 38 DUREAN 667 38 140 674 396 147 370 670 396 630 670 670 397 586 670 670 397 586 670 670 670 398 670 670 670 670 398 670 670 670 688 670 670 670 670 < | BLOE HEINE BLOE HEINE CLESTER 98 CLESTER 98 CLESTER 98 CLESTER 98 CLASTER 98 CLASTER 866 81 667 CLASTER 866 81 667 CLASTER 866 81 667 GLASTER 866 81 667 GLASTER 686 81 646 GLASTER 686 81 646 GLASTER 686 686 686 686 686 686 686 686 686 686 686 686 686 686 <th <="" colspan="4" td=""><td>BLOWENCIPE USAN STATE GEO STATE <td>BLOEMFONTION BLOEMFONTION COLSENTION 988 COLSENTION 988 COLSENTION 779 219 CRADOCK 988 CRADOCK 888 686 811 686 EASTIONON 667 288 985 764 FFREINT 328 945 342 388 945 342 348 647 647 647 647 647 647 647 647 648 641 1675 342 342 342 342 342 342 343 345 345 345 345 345 345 345 <t< td=""><td>BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION</td><td>$\begin{tabular}{ c c c c } \hline \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$</td><td>BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<></td></t<></td></td></th> | <td>BLOWENCIPE USAN STATE GEO STATE <td>BLOEMFONTION BLOEMFONTION COLSENTION 988 COLSENTION 988 COLSENTION 779 219 CRADOCK 988 CRADOCK 888 686 811 686 EASTIONON 667 288 985 764 FFREINT 328 945 342 388 945 342 348 647 647 647 647 647 647 647 647 648 641 1675 342 342 342 342 342 342 343 345 345 345 345 345 345 345 <t< td=""><td>BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION</td><td>$\begin{tabular}{ c c c c } \hline \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$</td><td>BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<></td></t<></td></td> | | | | BLOWENCIPE USAN STATE GEO STATE <td>BLOEMFONTION BLOEMFONTION COLSENTION 988 COLSENTION 988 COLSENTION 779 219 CRADOCK 988 CRADOCK 888 686 811 686 EASTIONON 667 288 985 764 FFREINT 328 945 342 388 945 342 348 647 647 647 647 647 647 647 647 648 641 1675 342 342 342 342 342 342 343 345 345 345 345 345 345 345 <t< td=""><td>BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION</td><td>$\begin{tabular}{ c c c c } \hline \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$</td><td>BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<></td></t<></td> | BLOEMFONTION BLOEMFONTION COLSENTION 988 COLSENTION 988 COLSENTION 779 219 CRADOCK 988 CRADOCK 888 686 811 686 EASTIONON 667 288 985 764 FFREINT 328 945 342 388 945 342 348 647 647 647 647 647 647 647 647 648 641 1675 342 342 342 342 342 342 343 345 345 345 345 345 345 345 <t< td=""><td>BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION</td><td>$\begin{tabular}{ c c c c } \hline \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$</td><td>BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<></td></t<> | BUDENTIFICATION BUDENTIFICATION CONTRENTIFICATION CONTRENTIFICATION | $\begin{tabular}{ c c c c } \hline $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ | BIOLEMENTER BIOLEMENTER COLSEE 779 798 COLSEE 779 798 COLSEE 798 798 798 COLSEE 198 811 881 660 COLSEE 687 788 788 788 788 788 788 787 670 878 878 878 878 878 878 878 878 878 670 670 788 670 670 670 671 672 673 673 673 673 673 673 674 674 674 674 674 <th< td=""><td>BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th></td></th<> | BLOEMFORM COLSPECTION 98 COLSPECTION 979 219 CRADOR 88 160 667 68 816 104 CRADOR 868 868 868 868 868 868 660 667 CRADOR 660 667 68 160 667 68 160 667 68 610 660 667 68 618 1040 667 68 616 66 66 66 66 66 66 66 66 66 66 66 66 66 66 66 <th <<="" colspan="5" td=""><td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td></th> | <td>BLOEMFONTION CAUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th></td> | | | | | BLOEMFONTION CAUE SUBUE SUBUE <th co<="" td=""><td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td></th> | <td>BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th></td> | BIOEMFONTION COLSPECTION OPEN COLSPECTION OPEN COLSPECTION COLSPECTION OPEN COLSPECTION COLSPECTION COLSPECTION OPEN OPEN <th colspan="5" open<="" td="" th<=""><td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td></th> | <td>BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th></td> | | | | | BLOEMFONDE COLSENDE COLSENDE COLSENDE SPECIAL COLSENDE SPECIAL SPECIAL <th colspan="5" speci<="" td=""><td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td></th> | <td>BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE</td> | | | | | BLOEMFONTION COLSSEND OPE COLSSEND OPE OPE OPE OPE OPE COLSSEND OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE OPE |

[Source: South African Gateway Tours (SATSA)]

NAME/EXAMINATION NUMBER:

ANNEXURE B

QUESTION 7.3.1 AND QUESTION 7.3.2

