

TAMIBIA UNIVERSITYOF SCIENCE AND TECHNOLOGY

OFFICE OF THE REGISTRAR

Student Admissions

SUBJECT:	Mature Age Entry Test: Numeracy		
DATE:	August 2019		
DURATION:	2 Hours		
TOTAL MARKS	60 marks		

INSTRUCTIONS/INFORMATION

- 1. DO NOT OPEN this booklet until you are told to do so.
- 2. This question booklet consists of six (6) pages, including this cover page.
- 3. Answer all the questions in the spaces provided in this booklet.
- 4. Where necessary, do your rough work in the space underneath each question.
- 5. Hand in your booklet at the end of the examination.
- 6. On no account may this booklet or part of it be taken out of the examination venue.

CANDIDATE'S PARTICULARS

Surname	
First Names	
ID / Passport Number	
Signature / Date	

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TOTAL MARK	%	MARKER'S SIGNATURE	

Section 1: Quantitative aptitude

Anne is a caring daughter. She visits her old parents after every 5 days. Tony her 1. brother visits their parents after every 4 days. Each time the two siblings meet at their parents' house, they share a cake. On the 1st of January they shared a cake at their parents' house. On what day and month will Anne and Tony be sharing their next cake at their parents' house? Answer: _____ (2 marks) Shilongo has a sum of money. He gave half of this money to his wife and then N\$800, 2. which is a third of the remainder, to his son Andrew. How much did Shilongo's wife get from her husband? Answer: N\$______ (2 marks) How much did Mr Shilongo have at the beginning? 2.2 Answer: N\$______ (1 marks) 3. Andrew, Mariam and Piet are friends. Andrew is three years older than Mariam. Mariam is seven years younger than Piet. If Piet is 27 years old, then how old is Andrew? Answer: _____ years (2 marks) This year, Anthonia is half the age of her 64-year old mother. How old will Anthonia 4. be when her mother is 79 years old? Answer: _____ years (2 marks)

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5.		$2,5,7,10,\ldots$			iowing sequ	iences:	
	5.2	2,-6,18,-54,			,	·· , ·······	. (3 marks)
			Answer:	, .	,		(3 marks)
Section	on 2: E	veryday arithmetic					
6.	One	litre of petrol costs N\$	13.25.				
	6.1	How much will it tak	e to fill a 60-l	itre tank v	with petrol?		
				Answe	er: N\$	(2	2 marks)
	6.2	6.2 How much will it take to fill a 50-litre tank with petrol if the tank was already half full?					
				Answe	er: N\$	(1	L mark)
7.	The cost of making a telephone call is a fixed 30 cents for each call plus 12 cents for each minute. Agnes made a call that lasted for 8 minutes to Bianca. Twenty minutes later, Agnes made a call that lasted for 15 minutes to Carol. What is the total cost for the two calls that Agnes made? (Give your answer first in cents and then in N\$.)						
		Answ	er:	cents	N\$	(4	marks)

,		D% VAT to the discounted price. Use this in vice appearing below:	formation	to complete	the part of
	an invo	10% of original price: Discounted price: VAT on discounted price:	N\$		(1 mark) (1 mark) (1 mark)
		Final price:			(1 mark)
9.	The fo	20kg chicken @ N\$45 per kg Canopy: 4 hrs @ N\$75 per hour 80 chairs @ N\$5 per chair Miscellaneous logistics Subtotal 15% VAT of subtotal Total payable		amounts. N\$ 3500.00	(6 marks)
10.	A fau 10.1	Ity water tap is wasting water at the rate of this tap continues to waste water at the water will this tap waste in 72 hours? Answer water costs N\$6.20 per litre. How much for wasted water if the tap was only report	wer:	en how many litres (2 marks)
		Ans	wer: N\$_	-	(2 marks)

	does a loaf of	bread now cost	:?				
						(2 marks)	
12.		nning a birthday				ends to give six	
	lollypops to	each little child	attending the	e party. A pacl	ket of lollypops	contains	
	sixteen. Penny expects twenty-four little children to attend the party. How many						
	packets of lo	ollypops should	Penny buy fo	r the little chil	dren?		
				Answer:	packe	ts (2 marks)	
13.		Johannes' villag will a family of tl					
			Answer:	N\$		(3 marks)	
14.	The 750ml bottle of special cooking oil sells for N\$32.50 while the 500ml bottle of						
	the same oi	l sells for N\$28.2	25. Which of t	these two bot	tle sizes is chea	aper?	
			Ans	wer:	ml bot	tle (2 marks)	
Secti	on 3: Arithme	tic					
15.	Simplify:	15(43-34)					
				Ans	swer:	(1mark)	
16	Simplify:	(8-5)(3+15)				
				Ans	swer:	_ (2 marks)	

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11 The price of a loaf of bread was N\$9.80. The price has increased by 6%. How much

17.	Simplify $4 \times 3 \times 5 \div 2 \times 5$							
	,	. •			Answer:	(2 marks)		
18.	Simplify	4×3×5÷	·(2×5)					
					Answer:	(2 marks)		
Section	on 4: Instru	uctional						
19.	An opera	ation * is d	efined by $a*$	$b = (3 \times a) - (2 \times a)$	(b) . For example,			
		$(3 \times 4) - (2 \times 4) = (3 \times$	2×5)					
		swer is 2						
	Use this	Use this instruction and example to evaluate each of the following:						
	19.1 2	2*3						
	19.2 (1*1)*3			Answer:	(2 marks)		
	19.3 1	*(1*3)			Answer:	(3 marks)		
					Answer:	(3 marks)		

END OF TEST