## END OF YEAR EXAMINATIONS

# Uganda Certificate of Lower Secondary Education

### Mathematics Paper S.2

	: 2 hours	·	CTDEAM				
STUL	DENT"S NAME:		STREAM				
INST	RUCTIONS:						
•	Answer all the questions in sect	tion A and Each question in section A	carries 4 marks				
	<u>s</u>	ection A (40 MARKS)					
1.	ELon Musk, this month of October 2022 paid 44 billion dollars to purchase twitter. If he got 45% of the money from selling his assets and rest from a bank loan. What is the value of money he got from selling his assets and Bank in figures?						
	Sell of his assets	Bank					
	Elgon, Mount Meru, Mount Kilim	earnt about the following places; Mo nanjaro, Mount Rwenzori, Kenya, Tanzo	ania and Uganda.				
	) Draw an arrow diagram to show ) What is the domain and the ran	the relation amongst the places liste	d.				
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		that the price of commodities have increased by that mentioned rate?  If the price of posho is now 4500/= what is the original price of the commodity?
•••	••••••	
•••		A Farmer said he annually spends at least 8000 per acre on spraying, weeding 24,000 per acre and shs 20,000 on pruning per acre. What is the spending on a farm of 20 acres?
•••	5.	The sum of two numbers is 27. If one of the numbers is twice the other. Find the numbers.
•••		
	6.	Using a relation that $3x-2$ , what is the domain if the range is $\{4,10,16,22\}$
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7. (a) (b)	· · · · · · · · · · · · · · · · · · ·
8.	(a) At the market, Marion had 80,000. He spent $\frac{1}{4}$ of his money on books and $\frac{4}{5}$ of the remainder on open shoes. How much money did she remain with after her spending with transport of 5000?
9.	A translation described by vector <b>T</b> transforms a point A (3, -2) to A' (5, 2).  (a) What is the vector translation <b>T</b> ?  (b) Use the translation obtained in (a) to work out the coordinates of the image of point E (2, 4).

	promo has 20 people participating in it. Form an equation and use it to find the overall cost of the promo?
••••	

#### Section B (40 Marks)

#### (Number 11 is COMPULSORY and Pick any ONE from 12 and 13)

- 11. A learner is given a task of plotting the following points on the grid. A(-4, 1) ,B (-6, -2), and C (-2, 4)
- (a) Plot the coordinates above.
- (b) Draw a line y = -x and reflect the figure through that line.
- (c) Then translate image of part (b) above using a translation vector  $\binom{2}{-2}$ .
- (d) State the co-ordinates of the final image.

(10 marks)

12. Below is table showing the price of petrol for the months of January to July in Uganda.

Month	Jan	Feb.	Mar	Apr	May	Jun	July
Price(UGX00)	29	32	45	50	54	65	60

- a) Draw a line graph to represent the information above
- b) Suggest a price for August following the trend of the line graph with reason
- c) If a school has trips in months of Feb, May and June. Covering distances of 12Km, 20km and 10 km respectively. If A school Bus consumes (uses) one litre for every 2km. what will be the total cost price of petrol to be used in the School Bus? (20 marks)
- 13. The caterer of a school located in kira Municipality is required to buy food stuffs for a school party. The foodstuffs to be bought include: 100 kg of rice, 150kg of meat and 200kg of Irish potatoes. The cost is UGX 4000, UGX18,000, and UGX1500 per kg of rice, meat and Irish potatoes respectively in kyaliwajara market. The same items cost UGX. 2500, UGX. 14,000 and UGX. 1,200 per kg of rice, meat and Irish potatoes respectively, in

Gayaza market. To hire a pick-up from Kyaliwajara market to school costs UGX 50,000 while a pick-up hire from Gayaza farmers' market is UGX100,000.

(a) Using the information provided above, how would the caterer decide on where to do the shopping from? Justify your answer. (20 Marks)

**END**