MORTAR EXCEL EXAMINATIONS COMMITTEE BEGINNING OF TERM I 2024

P.7 MATHEMATICS

Time allowed: 2 hours 30 minutes

Random No.			Pers	Personal No.	

Candidate's Name:	***************************************
Candidate's Signature:	
District ID NO.	Annual Artist States and Indian

Read the following instructions carefully:

- This paper is made up of two Sections: A and B.
- Section A has 20 questions (40mks) and 2. Section B has 12 questions (60mks)
- All answers must be written using a blue or 3. black ball-point pen or ink but only diagrams must be drawn in pencil.
- Unnecessary alteration of work may lead to 4. loss of marks.
- Any handwriting that cannot easily be read 5. may lead to loss of marks.
- Do not fill anything in the boxes indicated 6.

"It is for Examiners' use Only".

Organised by: Mortar Excel Examinations Committee Entebbe.



Mortar Excel Examinations Committee Entebbe. Tel: 0757-713720/ 0783-185533/ 0782-967838/ 0782-357828

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	USE ONLY

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Qn No.	Marks	Examiner's No.		
1 - 5				
6 - 10				
11 - 15				
16 - 20				
21 - 23		Manager Land		
24 - 26				
27 - 29				
30 - 32				
TOTAL				

SECTION A(40Mks)

1. Add: 4 8 kg + 3 8 0 kg

2. Round off 47.69 to the nearest tenths.

Collect like terms and simplify:
 2m + 10k - 7k + m

4. Express 10 in binary base.

5. A rope is 5.07 metres long. How long is it in centimetres?

6. A dozen of bic pens cost sh.9600. How much is paid for 5 such pens?

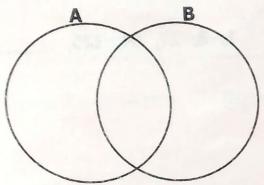
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Use the distributive property to work out .

$$(217 \times 12) + (12 \times 83)$$

10. Use the digits 6, 0, 4, 9 to form the largest and least 4 digit numerals.

8. Shade the complement of A n B.



The diameter of a circle is 56cm.
 Calculate its circumference.

 There are 150 candidates. The ratio of girls to boys is 8:7 respectively. Find the number of boys.

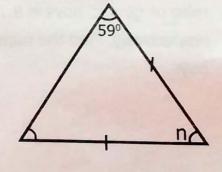
12. Divide 412 by 3.

- 13. A shirt was bought at sh. 40,000. If on selling it, a profit of sh. 8000 was made.

 Calculate the percentage profit.
- 16. Given that H = {a, b, c}. List down all the subsets of H.

- 14. Express 68084 in words.
- 17. Determine the next numeral in the sequence:

- 15. Use your pair of compasses to construct 30° at X.
- 18. Calculate the size of angle labelled by n.



- Apolot is 4 years older than
 Obol. Find Obol's age if the sum of their ages is 32 years.
- b) Simplify: 2.1×0.08 (03mks)

- 20. The price for a kg of meat decreased by 5% from sh.16000 Find its new price.
- 22. A trader sold 5 trays of eggs on saturday. Then on the next day, she sold 12 less eggs.
- a) Find the total number of sold eggs in the two days. (03mks)

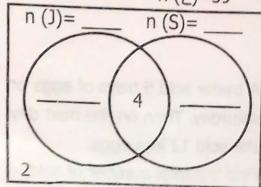
SECTION B (60Mks)

- 21a) Express ³/4 as a decimal. (02mks)
- b) How much did she get on sunday if each egg was sold at sh.500? (02mks)

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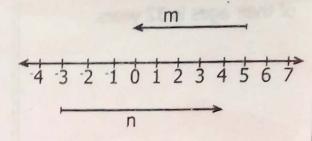
- At a wedding meeting attended 23. by 39 people, 22 took juice (J), 3t took only soda, 4 drank both yet two took other drinks.
- Complete the venn diagram. a)

(02mks) $n(\xi) = 39$ n(J)=n(S)=



Find the value of t. b) (02mks)

How many people took only one c) type of drink? (02mks) 24a) Which integers are represented by letters m and n? (02mks)



m =

n =

b) Find the product of m and n. (02mks)

A 40 seator costa set off from C) Entebbe with 29 passengers. On reaching Zana, 4 went out while 10 boarded it and proceeded to Kampala. How many passengers reached Kampala? (02mks)

25.	Given that	$X = \{2,\}$	2,,	5,} and
	$Y = \{2_1, 2_2, 2_3, 2_4, 2_5, 2_5, 2_5, 2_5, 2_5, 2_5, 2_5, 2_5$	3, 5,}	2.	1,

a) Determine the HCF of X and Y. (02mks)

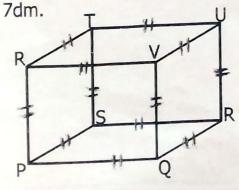
- b) Bells ring at intervals of 40 minutes and 30 minutes in a school. Every after how many hours do they always ring together? (03mks)
- b) Find the volume of this prism.
 (02mks)

Draw out its net.

a)

(01mk)

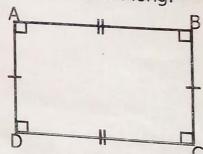
- c) Calculate the total length of its edges. (02mks)
- 26. The length of the prism PQ is



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- 27. Add: 3 1 2_{five} + 4 2_{five} (02mks)
- b) How many more girls than boys has this class? (03mks)

- b) Which numeral has been expanded? (02mks) $(4x10^4)+(6x10^2)+(7x10^1)+(4x10^0)$
- 29. The rectangular cloth below is 6m wide and 8m long.



- 28. A class has a total of 64 pupils.

 Of these 12¹/2% are boys while the rest are girls.
- a) Express 12¹/2% as a common fraction. (02mks)
- a) How many square metres has it? (02mks)

b) Calculate the length of AC.

(02mk)

ii) Measure the size of angle

P = (01mk)

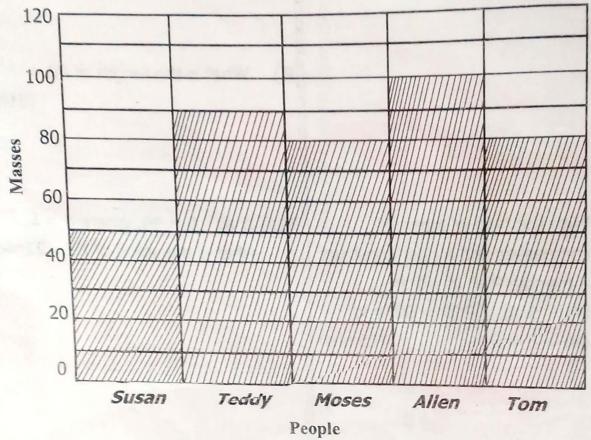
iii) What is the length of PR = (01mk)

- 30i) With the help of a pair of compasses and a ruler construct a triangle PQR in which PQ = 8cm, / PQR = 90° and QR = 6.4cm. (03mks)
- 31a) If ab 6 = 44, where a = 5, what is the value of b? (02mks)

b) Use the lattice method to multiply out: 346 by 54.

(02mks)

32. The bar graph shows masses of some people at the bar. Use it to answer the questions which follow.



Questions

- a) What is the mass of the lightest lady? (01mk)
- b) Find the median of the masses. (02mks)

c) Work out the average.

(02mks)

d) Identify the modal mass.

(01mk)

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