KOLFRAM EDUCATIONAL SERVICES KAMPALA



PRE NATIONAL MOCK EXAMINATIONS 2024

SET FIVE

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index Number:	EMIS Number			Personal Number					
Candidate's Name	e:								
Candidate's Name: Candidate's Signature:									
School Name:									
District Name:						······	•		
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Read and follow these instructions carefully:

- This paper has two sections: A and B. Section
 A has 20 questions and section B has 12 questions. The paper has 10 printed pages.
- 2. Answer **all** questions. **All** answers to both sections A and B must be shown in the spaces provided.
- 3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will **not** be marked.
- 4. No calculators or **electronic** pens are allowed in the examination room.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- 6. Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FOR EXAMINER'S	USE	ONLY
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QN. NO.	MARKS	EX'ER'S INITIAL
1 -5		
6 - 10		
11 - 15		
16 - 20		
21 - 23		
24 - 26		
27 - 29		
30 - 32	R.	1
TOTAL		T.

Turn Over

© 2024 KESK P7 MATHEMATICS PRE NATIONAL MOCK SET V EXAMINATION

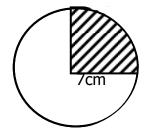
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	SECTIO	N A	(40 MARKS)			
1.	Add: 4 0 2 + 1 4 3	2.	Simplify: +6 - +8			
3.	Divide 2727 by 3.	4.	Round off 4783 to the nearest tens.			
5.		is 5:6	5. If there are 20 girls, how many pupils			
	are in the class?					
6.	If x and $2x + 30^{\circ}$ are angles on a st	raigh	nt line. Find the value of x in degrees.			
7.	Kato scored the following marks in a game: 4, 6, 2, 4, 6, 4 and 0. Find his modal mark.					
8.	Workout $\frac{2}{9} + \frac{4}{9}$ to its simplest	9.	Write 24 as a product of its prime factors.			
	form.					
10.	In a hacket 4 rotten aggs are mive	d wit	th 5 good eggs. If an egg is nicked at			
10.	In a basket, 4 rotten eggs are mixed with 5 good eggs. If an egg is picked at random from the basket, what is the probability of picking a good egg?					

12.	Using a pencil, ruler and protractor		
13.	Kato scored the following marks in a game: 4, 6, 2, 4, 6, 4 and 0. Find his modal mark.	14.	Find the sum of the next two numbers in the sequence. 2, 3, 5, 7,,
15.	How many lines of folding symmetr	y doe	s the figure below have?
16.	Work out (5 x 14) + (5 x 6) using distributive property.	17.	Write in figures: Forty five thousand, five.
18.	A mathematics test lasting $1 \frac{1}{2}$ hotest start?	urs en	ded at 11:00a.m. At what time did the

19.	The mean age of 4 girls is 15 years, the total age of three girls is 50 years. Find
	the age of the fourth girl.

20. Find the area of the shaded part of the circle.



Section B

(3marks)

b)
$$\mathbf{1}\frac{2}{5} \times \mathbf{1}\frac{1}{2} \div \mathbf{3}\frac{1}{2}$$

(3marks)

22. a) What is the place value of 3 in the number 4 5 3 0 1?

(1mark)

b) Simplify:
$$n^3 \times n^5 \div (n^2 \times n^4)$$

(2marks)

c) Expand 4 3 7 using values.

(2marks)

23. The sum of interior angles of a regular polygon is 720°.

a) How many sides has a polygon?

(3marks)

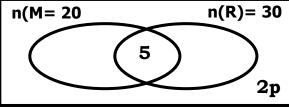
b) What is the size of each exterior angle?

(2marks)

24. In a class of 40 pupils, 20 enjoy Matooke (M), 15 enjoy Rice (R), 5 enjoy both Matooke and Rice yet 2p enjoy neither of the two.

a) Complete the Venn diagram below

(3marks)



b) Find the value of P.

(2marks)

25.	The	average s	core of 7	7, 9	, 7	, 4 a	and	m	is 6	Ō.

a) Find the value of M

(2marks)

b) What is their Range

(1mark)

c) Find the sum of their median and mode.

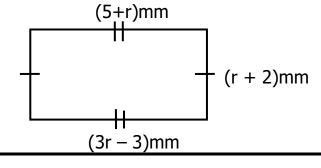
(2marks)

26. Using as pair of compasses, ruler and pencil only, construct triangle KPC where $\overline{KP} = 6$ cm, angle KPC = 60° , angle CKP = 30° and drop a perpendicular bisector from C to meet KP at n. (5marks)

b)Measure $\frac{-}{cn}$.

(1mark)

27. Below is a rectangle. Study it and answer the questions that follow.



a`) Find	the	value	of	r.
u,	<i>)</i> 1 11 14	CIIC	valuc	Oi	٠.

(2marks)

(3marks)

28. Solve for m:

a)
$$\frac{3m+1}{4} = \frac{m+2}{2}$$

(3mks)

b)
$$\frac{1}{5}$$
 m² = 20

(2marks)

29. The sum of 3 consecutive odd numbers is 45.

(a) Find the numbers

(3marks)

(b) If set x = (all square numbers between 3 and 20) Find n(x)

(2marks)

 30. Judith went to the supermarket with shs. 45000 and bought the followard of rice at shs. 2500 per kg 2 loaves of bread at shs. 3800 per loaf 1 ½ litres of cooking oil at shs. 2000 each litre 500 gm of blue band for shs 6000 a kg 	owing items.
a) What was his total expenditure?	(5marks)
c) If she was given a discount of shs. 1000, how much was her chan- (1mark)	ge?
31. a) Express 20m/sec as km/hr.	(2marks)
b) A cyclist covered a distance of 60km in 30 minutes. Express his spe	(2 marks)
32. Nakato is twice as old as her brother John. If their total age is 42 yea a)How old is John?	ears. (2marks)
b) Find the difference in their ages	(1mark)