NATIONAL PRIVATE EDUCATIONAL INSTITUTIONS ASSOCIATION (NPEIA)

MOCKS MASTER SET I 2023

MATHMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

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DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully.

- This paper has two sections A and B. Section A has 40 questions and section B has 15 questions
- Answer ALL questions. Answers to both sections A and B must be written in the spaces provided.
- All working must be done using a blue or black ball point pen or ink. Any working done in pencil other than graphs, pictures and diagrams will not be marked.
- 4. No calculators are allowed in the examination room.
- 5. Unnecessary changes of work may lead to loss of marks
- Any hand writing that cannot easily be read may lead to loss of marks.
- Do not fill anything in the box indicated for 'Examiner's use only' and those inside the question paper

FOR EXAMINER'S USE ONLY					
QN. NO.	MARK	EXR'S No.			
1-10					
11-20					
21-30					
31-40					
41-43					
44-46					
47-49					
50-52					
53-55					
TOTAL					



	SECTION A (40)	MAR	KN) Texpress AK g into grammes,
1	Work out: 33 X 2 ==	2	Texpress Ar. E into Eramina
3	Write CDXXIV in Hindu – Arabic numerals	4	Find the range of =4 and =3
5	Given that Set R = {all natural even numbers less that 10}, how many subsets are in set R?	6	A bag contains 5 red pens and 3 blue pens. Find the probability of picking either blue or black pen from the bag?
7	Add: 3 3 _{five} + 1 2 _{five}	8	Using a ruler, a sharp pencil and a pair of compasses only, construct an angle that is complementary to 30°.
9	Find the next number in the sequence: 4, 9, 25, 49,	10	Given the decimal numbers: 0.6, 0.7, 0.5, 0.2 and 0.3, circle only two numbers that gives a total of 1.

11	What percentage of the diagram below is un shaded?	12	Round off 759.75 to the nearest whole number.
13	A taxi takes 2 hours 15 minutes to travel from Kampala to Jinja. At what time should it leave Kampala to reach Jinja at 10:10 am?	14	The L.C.M of 12 and k is 36 and their G.C.F is 6. Find the value of k.
	P. C. Practice	W.	
	ric so sult vecile spris via modi. W . (il E vii tidorivili of asa laramun ; (vivinis)		To select a place of the control of
15	The figure below is a cuboid, if the area of all faces making the figure is 94cm ² , find the value of w in centimeters. 4cm 5cm	16	In Kasagama primary school, the Kitchen is at a bearing of 195° from the head teacher's office. Using a sketch diagram, find the bearing of the head teacher's office from the Kitchen.
fam a 1 T	de markett :	TVAR	and the survey field salt the and the 10 - 12
		949	eq COLE consideration 2,700 per for also to the Cole of the Cole o
17	Demas sold a radio for Sh. 25,000 making a loss of sh. 3,000. At what price did he buy the radio?	18	Solve the inequality: 8 - 2h > 2



19	Work out: 3 + 5 X 2	20	Given that 3 US dollars is equivalent to Ug Sh.10,950. Find the number of dollars that Kabugo will buy with Ug.Sh. 730,000.
	Fiber of and the Silts will be to \$1.	mais or o	of rotation of remod Survivariants &
	SECTION	B (60 m	arks)
21	a) Given the numeral; 84,051		The second secon
	l) Write down the place value of 0. (1mark)	11)	Without dividing, show that the given numeral can be divisible by 3. (2marks)
	The Reservant present of the control	the to some	
	Ill) Find the sum of the value of 4 and the	ne place va	alue of 5. (3marks)
	to record the best processes datable to be	ne place va	alue of 5. (3marks)
22	to record the best processes datable to be		
	Ill) Find the sum of the value of 4 and the	he market very half	a Kg,
222	Medi bought the following items from the sum of the value of 4 and the sum of 4 and the su	he market very half 00 per lit	a Kg,
222	Medi bought the following items from the sum of the value of 4 and the sum of 4 and the su	he market very half 00 per lit	a Kg, re,
22	Medi bought the following items from the sum of the value of 4 and the sum of 4 and the su	he market very half 00 per lit	a Kg, re,
22	Medi bought the following items from the sum of the value of 4 and the sum of 4 and the su	he market very half 00 per lit	a Kg, re,

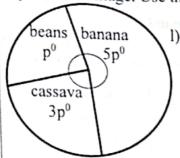
	b) If he used sh. 6,000 for transport and rema much money did he have at the beginning?	ined v	with only sh. 3,4 (2marks)	100 in his wallet, how
				construit for the construit of the construction of the construction of the construit of the construction of th
	The Venn diagram below shows 80 guests who attended the party and were served	b)	How many gu Water?	ests were served with (3 marks)
4.	Water (W) and Soda(S). The number of guests who were served with Soda only is half the number of guests who were Served with Water, Complete the Venn diagram below. (2 marks)	Per e visco	angeringe af ridge af vig Time verter kead in to	enterporare di transporare accomissionale solveni.
2)1	$n(\varepsilon) = 80$ $n(S) \qquad n(W) = y$ 16	1.01	i Ziespolita ni jo mjev ali i Σi	s et to newn see
	a) A tray has 30 eggs. How many trays can be got from 27,120 eggs? (2marks)	b)	Subtract 341 fi	rom 2000. <i>(2marks)</i>
14			mineraksida Silot erbetuar	(valendarien en 1967) Die er dem er nei il Gränner de
	A tank has two taps that pour water into it. Ta minutes and tap G turned on alone fills it in 1 and the two taps turned on at the same time. I (4 marks)	0 mir	nutes. One day,	the tank was $33\frac{1}{3}$ % full
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	In the table b	below, the sur	n of the values is	the san	ne horizontally, vertically wing the working. (5 mar	and ks)
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		6				
3.1	r barras an (k i7 ma k	a created fund	n welf la (cl.) a		Bework welled institution regy vises, gress and bushe	
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				viole i	gor palor seksala to malalasi 5 pelov teks seulgamil), ros	
			; 15, 4, 10, r, 8	b)	Find the median of the r	numbers (2 marks)
	and 15 is 11.	, find the valu	(2 marks)			(2 marks)
					(-1)	
			1			
	011/1	I must taken				
	CASTRON AND ARTHUR					
- 4	mi c 1	1	we atom evilor above	t of non	or maggiring 30cm long l	av 20am wid
	If each side	is increased b	by 10%, calculate	the per	er measuring 30cm long to centage increase in the are	ea.
== 1	(6 marks)	30cm				
	20cm		a komerti (517-d in 10 oslan <mark>ka</mark> s 19		interior de la compania. Súccional forma de telestas	
		<u> </u>	80. 21 A			
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2.1						
		The same of the sa				
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9.	Express 15 metres per second into	h) A Mathamatica aveninting at set of
)	Kilometres per hour. (3 marks)	b)A Mathematics examination started at 12:15am. Express the time the paper started in 24 hour clock system. (2 marks)
	The continue of the second of the second of the second	
	The average of three consecutive odd num square of the smallest number.	bers is 9. If the largest number is h, find the (5 Marks)
1		TEAD:
	which line segment EA= 6.5cm, angle HEA	ncil only, construct a parallelogram HEAR in $A = 60^{0}$ and line segment
	AR = 4cm.	(4 marks)
	그리는 그 모든 마양이 있었다. 전에 맛있는 것이다는 그 살은 하나면 살아 되었다면 살으로 나타지어야?	



32. The circle graph below shows the number of farmers who grow various crops in Mpumudde village. Use the data given to answer questions that follow.



l) Find the value of p.

(2 marks)

11) If 100 farmers grow cassava, How many farmers are in Mpumudde village altogether? (2 marks)

lll) Express the number of farmers who grow beans as a percentage of all the farmers in the village.

(1 mark)

Wish you success

