# 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					



alteraces	SECTION A (40)	MAR	KN) Texpress AK g into grammes,
1	Work out: 33 X 2	2	Express Arg into granica
3	Write CDXXIV in Hindu – Arabic numerals	4	I'ind 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 <sub>five</sub> + 1 2 <sub>five</sub>	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 <sup>2</sup> , 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 forallo de total of the per distribution and the second of the secon
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



.9	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.
	Fig. 1. Sec. C. N. of 12 and R. S. omni T. S	nont a se	of contiem 24 cannot Successful to the contient of the contien
	SECTION	B (60 m	arks)
21	a) Given the numeral; 84,051	11.5	
	1) Write down the place value of 0. (1mark)	.   11)	Without dividing, show that the given numeral can be divisible by 3.  (2marks)
	I in Kasagema prepare of fel the	h Tu sun	
	ा परिचित्र के पुरस्कात है कि साम हो <mark>कहा है। जिल्ला कर्</mark> ग	told bu	
	Ill) Find the sum of the value of 4 and the		attation and other very mention of
	Ill) Find the sum of the value of 4 and the	e place va	alue of 5. (3marks)
22	Kitchen is at a hearby of 195 find the liead to chor's office. As yes the liead disparent find the Lagrange	e place va	alue of 5. (3marks)
22	Ill) Find the sum of the value of 4 and the	e place va	alue of 5. (3marks)
22	Ill) Find the sum of the value of 4 and the  Medi bought the following items from the  2kg of rice at sh. 3,800 per kg, 6kg of Soya flour at sh. 1,500 ev 500ml of cooking oil for sh. 6,000	e place va	alue of 5. (3marks)
22	Medi bought the following items from the 2kg of rice at sh. 3,800 per kg, 6kg of Soya flour at sh. 1,500 ev 500ml of cooking oil for sh. 6,000 4 heaps of Onions at sh. 2000	e place va	a Kg, re,
22	Medi bought the following items from the 2kg of rice at sh. 3,800 per kg, 6kg of Soya flour at sh. 1,500 ev 500ml of cooking oil for sh. 6,000 4 heaps of Onions at sh. 2000	e place va	a Kg, re,

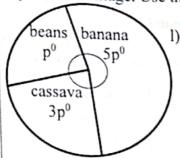
	b) If he used sh. 6,000 for transport and rema much money did he have at the beginning?	ined v	with only sh. 3,4 (2marks)	100 in his wallet, how
		Sample on the State of the Stat		
	The Venn diagram below shows 80 guests who attended the party and were served Water (W) and Soda(S). The number of	b)	How many gu Water?	ests were served with (3 marks)
7	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)			
2 ył.	$n(\varepsilon) = 80$ $n(S) \qquad n(W) = y$	1-01 Aso.	i Zirsoorin Die valen of τ (Ω	a esti to mesun safe. Budi , i i est est bese
	16			
	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>
e i Gw	motili ya <b>senol mot Gwamungam</b> atania motinia soni odeni sepakati o gelinotese in i sig		rimsi Kewas Mol ye bilani	reconstruction of the solution
	A tank has two taps that pour water into it. To minutes and tap G turned on alone fills it in I and the two taps turned on at the same time. If	0 mir	nutes. One day,	the tank was $33\frac{1}{3}$ % full
	(4 marks)			
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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 <b>i7</b> ma k	a created fund	n welf la (cl. ) a		Bework welled institution regy vises, gress and bolid	
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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 akmenterio		intrince of U.S. partice. Single of him of the Soc	
		<u> </u>	80. 21 A			
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		The same of the sa				
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9.	Express 15 metres per second into	h) A Mathamatica avaninting at a tad
	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 Carles American State on the contract of the	
	The average of three consecutive odd nun square of the smallest number.	nbers is 9. If the largest number is h, find the (5 Marks)
	ren eta la anticipa de la companya d	
	Using a pair of compasses, a ruler and a per which line segment EA= 6.5cm, angle HE	encil only, construct a parallelogram HEAR in $EA = 60^{\circ}$ and line segment
	AR = 4cm.	(4 marks)



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

