## **BUSIA DISTRICT ACADEMIC BOARD**

## D 7 MACE ACCECCATERY OOOA

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SUBJECT CLASS DURATION	PR	THEMA IMARY IOURS	SEVEN		S			
Index No.	R	Random No			Person	nal No.		
CANDIDATE'S NAME	:	••••••	•••••	•••••	•••••	•••••	•••••	••••
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District Nan	me :							
DO NOT OPEN TH SO READ THE FO	LLOWING	instr :	UCTIO					)
2. Section A has 40 questions (40 marks)			FOR EXAMINERS USE ONLY					
3. Section B has 15 que	estions (60 i	marks)						
<ol><li>Answer ALL question</li></ol>	is. <b>All</b> answ	ers to both	section		PA	GES	MARKS	SIG
A and B must be writt	ten in the sp	aces prov	ided.		Pa	ge 1		
5. All answers must be v	written using	g a blue or				ge 2		
black ball-point pen or ink.			Page 3					
6 Unnacassary alteration	n of work m	av lead to	loss of r	narks		ge 4 ge 5		
<ul><li>6. Unnecessary alteration of work may lead to loss of marks.</li><li>7. Any handwriting that cannot easily be read may lead to</li></ul>				ge 6	-			
7. Ally Handwilling that t	carriot casii	y Do road	may load			_		

loss of marks.

use only

8. Do not fill anything in the boxes indicated For Examiner's

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TOTAL	

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Turn Over

	5. Find the value of p in the diagram. \frac{2p}{3p} \frac{110°}{3p}	4. Given that set $p = \{\square, \triangle, O, \bigcirc\}$ set $k = \{O, \bigcirc, \square, \triangle\}$ What is the relationship between set $p$ and set $k$ ?	3. Calculate the greatest common divisor of 15 and 18.	2. Write XCIV in hindu arabic numerals.	SECTION A  1. Subtract: 1 7 8  - 1 5 6
P.7 Mathematics Mock Exam II 2024	9. Tell the morning time shown on the clock face below.  10		8. Using a ruler, a pencil and a pair of compasses only, Construct an angle of 120°.	7. Solve $3k + 4 = 10$ .	6. Express 0.00423 in scientific notation.

11. A boy planted 10 pegs along the circumference of a circular field at a distance of 30cm apart. Find the total distance round the circular field.		Add: 111 two + 11 two.
	16	Everyone 2 no a norganizaci
	10.	Express 3 as a percentage.
12. A trader bought 20 mangoes for shs. 8000 and sold each mango at sh. 500. How much profit did he get after selling all the mangoes?		
	1/	Arrange: -5,+2,-3-,2 and +3 in descending order.
	COLONIA COLONI	
13. A dice is tossed once. Find the probability that a prime number appears on top.		
		·
	18	Simplify: $(4p + k) + (K + 4p)$
14. Convert 6000mL to litres.		ompmy (ip they i (it i ip)
	Charles Santa	
	The same of the sa	
		(3)
	1	P.7 Mathematics Mock Exam II 2024

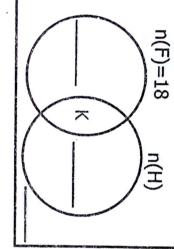
19. Work out:

20 Find the next number in the sequence below.

SECTION B

21. football while 4 players like neither of the two games. In a club, 18 players like football (F), (16 - k) like Hockey (H) but not

a) Use the above information to complete the Venn diagram below



(3marks)

b) Find the value of K given that the number of players who don't like football is 9.

(2marks)

Study the figure below and use it to answer the questions that follow.

23

HO

Find the value of ; i) y

(2marks)

ii) K	
iii) M	(2mks)
	(0.1.)
23.a) Change 13 <sub>ten</sub> to binary base .	(2mks)
	(2mks)
o) Give that 1111 <sub>two</sub> = 30p. Find the base P.	(26)
	(3mks)
<ul> <li>4. Mr. Wafula went to the market with sh. 20,000 note and following items.</li> <li>- 2kgs of onions at sh.3000 each kg.</li> <li>- 1½ kgs of salt at sh.4000 each kg.</li> <li>- 10 tomatoes at sh.500 for every two tomatoes.</li> <li>- 500mL of cooking oil at sh. 8000 per litre.</li> <li>a) What was his total expenditure.</li> </ul>	bought the
	(5mks)
Find his change.	(011110)
	(1mks)
P.7 Mathematics Mock Exa	m 11 2024

25. a)
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olify: 1
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(2mks)

b) In Pioneer P/S 100 pupils sat for PLE 2023.

Given that 2 of the pupils were boys and the rest were girls.

How many girls sat for PLE?

(3mks)

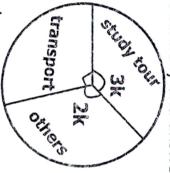
26.a) Solve for x : 2(x-2) = 6

(2mks)

b). Given that a = 2 and b = 3. Evaluate.

(2mks)

27. The pie chart below shows how Okumu spent his pocket money of sh. 108,000. Study it carefully and answer the questions that follow.



a) Find the value of K in degrees

(3marks)

b) How much more did he spend on study Tour than on others?
(2marks)
28. The figure below is a Rhombus ABC where diagonal BD is 6cm and the length of each side is 5cm. Study it carefully and answer the questions that follow.  Description of the diagonal AC.
i) Calculate the area of the Rhombus ABCD.
(2marks)  9. With the help of a ruler, pencil and a pair of compasses only. Construct a triangle PUK where line PU = 6cm, angle UPK = 30° and angle PUK = 105°. Drop a perpendicular line from K to meet PU at M.(4marks)
P.7 Mathematics Mack Even II 2024

i) Measure KM.	
(1	.mark)
30. In a fish factory, there are 20% more female workers than male workers. Given that female workers are 90.  a) Calculate the total number of workers in the factory.	9
	(3mks)
b) How many more female workers than male workers are in the fi factory?	-
	(2mks)
31. The average of K, 6, 9, 5, (K+1) and 9 is 15. a) Find the value of K.	
	(3mks)
b) Find the median of the numbers.	
	(2mks)
32. Johnny left town A to town B driving at a speed of 60km/hr. drove back at a speed of 90km/hr. Calculate the distance betw A and town B given that the total time taken was 5 hours.	He then een town (4mks)
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P.7 Mathematics Mock Exam II 20	8
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