

Fill in the required information below;

LEARNER'S NAME:		STREAM:	
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LEARNER'S NO.				
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STUDY GROUP'S NAME:	
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S.1  
MATHEMATICS  
b.o.t .11  
1<sup>1</sup>/<sub>2</sub> hours

THE MATHEMATICS DEPARTMENT 2023  
*Uganda Certificate of Lower Secondary Education*

**S.1 MATHEMATICS**

Beginning of term .11 Assessment

**Time: 1 hour 30 minutes**

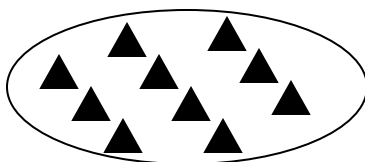
Instructions:

- Use the blue or black ink pen only
- Attempt **ALL** questions in Part **I** and **ANY ONE** question in Part **II**
- Show all the necessary working

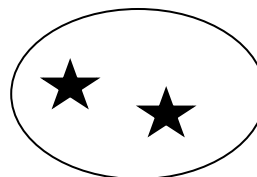
**PART. I**

1. To which base does each of the set belong, and state the base value.

(a)



(b)



(04marks)

2. Mike used the **repeated multiplication** method to convert  $tt5_{\text{eleven}}$  to base decimal base, which he later converted to base six. Guide Sarah on the steps Mike went through. (04 marks)

3. Given that  $102_n = 27$ , find n (04 marks)

4. Workout, (a)  $6 \div (2 + (2 \times 6 - 2))$

(b)  $\frac{240 \div 13(18 \div 6 + 3)}{(9 \times 3 - 25)}$  (04 marks)

5. Maroni scored a total mark of 32 from a mathematics test in which 4 marks were awarded to any correct answer and a penalty of 2 marks deducted for any incorrect answer. If he did all numbers and got 12 correct, how many numbers were incorrect? (04 marks)

**PART. II**  
**(Functional Mathematics)**

6. In Busoga Sub County, Monday and Thursday are market days. Kansiime a fruit seller harvested 7 packets each of 8 and 2 remained unpacked. When she reached in the market, she found out that she could park them in sixes, she repacked.

(a) How many packets of six did she have?

(b) On Tuesday, Kansiime harvested 4 packets of six and 2 remained unpacked. On Wednesday she collected 3 of 6 and 5 remained. How many packets did she have for sale if she packed in sixes? (15 marks)

7. Aisha and Moses do exercise together. Aisha exercises after 5 days and Moses exercises after 6 day. They started their exercises together on 1<sup>st</sup> Jan. They agreed to bring ropes the next time they could meet.

(a) Which date did both of them meet?

(b) Aisha took 12 meters. Moses took 8m. They realized that ropes needed to be cut into equal pieces. How best can they divide the ropes? (15 marks)

8. At Allhim S.S is a teacher's SACCO group. Two Teachers, Mr. Kamada and Mr. Musingo had a balance of 100,000/= and 200,000/= in the SACCO respectively. Mr. Kamada borrowed 2,000, 000/= and invested in goat keeping and got 3,000,000. Mr. Musingo borrowed 5,000, 000/= and invested in Second hand Clothes and she got 4,500,000. After Mr. Kamada and Mr. Musingo had deposited back, they want to borrow again.

(a) Which of the two made a better business choice and why?

(b) Advice the Chairperson of this SACCO on how to decide when borrowing and lending money. (15 marks)

**END**

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