**UGANDA CERTIFICATE OF LOWER SECONDARY EDUCATION**

**S.2 ASSESSMENT PAPER**

**Mathematics**

**Time: 2hours**

STUDENT’S NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stream: \_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Do not write in the boxes on this page. The examiner will use them to keep a record of your marks**.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qn | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |  |
| Marks |  |  |  |  |  |  |  |  |  |

**INSTRUCTIONS:**

1. Answer all the questions in this paper
2. Graph paper may be provided
3. Show all the working and explanation on the answer sheets provided
4. Ketty travelled from Mukono 12km East to Namataba trying to locate Namataba secondary school. On her travel info list, Namataba secondary school is 2km North East from the trading centre.
5. Draw a sketch diagram to help Ketty understand that given location
6. Using a scale drawing, draw an accurate diagram to represent her journey.
7. How far is Namataba secondary School directly from Mukono
8. Two movements are represented by vectors a = , b = . Using point (2, 2) as the starting point;
9. Show on graph +
10. Determine
11. A translation described by vector, T transforms point A (3, -2) onto A’(5, 2). Determine the vector, T
12. The interior angle of a polygon is 1200. Name and illustrate the polygon
13. During the movement in class, Jane moved from a position with coordinate (3, -4) to appoint (5, 7)
14. On graph, draw the distance Jane moved
15. Obtain the equation of the line
16. Determine the distance /length moved by Jane
17. At break time, the learners found at the canteen had the following preferences; pan cakes- 20 learners, cassava – 10 learners, cakes – 5 learners and the rest wanted chapati. If there were 50 learners at the canteen during break time, use a pie-chart to help the canteen manager plan the eats required daily.
18. In designing on paper, the object shape had coordinates A(-4, -3), B(-1, -3), C(-2, -1)
19. Plot this shape on the cartesian plane
20. Using line y = 0 as the mirror line, obtain the reflection of the object shape
21. Determine the coordinates of the image shape
22. The earning of a worker in a company is determined by the relation y = 2x + 5 where y – earning, x -number of days worked. Workers work from day 1 to day 10.
23. Draw table of values for the above arrangement
24. Plot a graph to show the relation
25. Using your graph, determine the would be earning of Juma after working for 12days
26. If the earning got is multiplied by 5,000/= to get the actual amount got. How much money did Juma get?

**END**