**MATHEMATICS**

**FORM 2**

**TIME: 1**$\frac{1}{2}$ **HOURS.**

**NAME………………………………………………………………………**

**ADM NUMBER………………………………**

***Attempt ALL the questions in the spaces provided (50 marks)***

1. Use logarithms to evaluate (4 marks).



**2.** Find the value of (3 marks)



**3.** A line L is perpendicular to the line



Given that L passes through (3, 10). Find the

a).Gradient of L (2 marks)

b) Equation of L in form of y = mx + c where m and c are constants. (2 marks)

4. Evaluate ;( 3marks)



5. The equation of a straight line is given by 2y +8x – 10 = 0. Another line L2 cuts L1 at right angles such that the point of intersection of the two lines is (-3, K)

(a) Find the value of K (1 mk)

(b) Determine the equation of L2 in the form y = mx +c (2 mks)

6. Use Logarithms to evaluate (4 mks)



**7.** Using logarithms tables: Evaluate. (4 marks)



**8.** Find the value of k in the equation (3 marks)



9. Use tables of reciprocals to workout (3 marks)



10. Use reciprocal and square tables to evaluate to four significant figures, the expression. (3mks)



11. Solve for x in the equation. (3mks)



12. Use reciprocals tables to evaluate (3marks).



13. Solve the equation (***3marks)***



14. Using tables, find the reciprocal of 0.432 and hence evaluate (3marks)



15. Calculate the value of the following expression using factor method. (4marks).

