GATITU MIXED SECONDARY SCHOOL

MATHEMATICS FORM 4 PAPER

MID TERM EXAM 2015

SECTION I (50MKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

1. Evaluate
2. Evaluate
3. Expand
4. Four interior angles of a heptagon are 100,150,125 and 105 respective. The fifth interior angle is twice the size of the sixth and the seventh angle is half the sixth angle. Find the size of the fifth angle. 4mks
5. Expand the following expression and the factorise as far as possible. 4mks
6. Thelines passing through the points A(-1, 3k) and B (k,3) is parallel to the line whose equation is 2y +3x =9 write down the co-ordinates of AB. 4mks
7. The base of a triangle is 3cm longer than its heigh. Given that the area of the triangle is 35cm2 determine the height of the triangle. 4mks
8. Simplify
9. It would take 15 men 8 days to dig a trench 240m long. Find how many days it would take 18 men to dig a trench 360 m long working at the same rate.
10. Use the method of completing the square to solve the quadratic equation . 4mks
11. Make A the subject of the formula 4mks
12. The sum of the first 8 terms of an AP is 236 and the sum of the first 6 terms of the same series is 147. Find the sum of the first 12 terms of the series. 4mks
13. Mueni bought maize and beans at sh . 20 per kg and sh, 50 per kg respectively. She mixed