**RWAMAGANA DISTRICT**

**G.S MUYUMBU**

**DATE : 10/12/2021**

**S2 ALL**

**FIRST TERM EXAMINATION**

**SUBJECT : MATHEMATICS / 60 MARKS**

1. Given that x=3 , y= 4 and w= 5,

evaluate **( 3marks )**

1. Write the following in its simplest index form
2. 96 **( 2 marks )**
3. Evaluate , writing your answer in the simplest form

a. **( 2marks)**

b. **( 2 marks )**

1. Simplify the following
2. **( 2 marks )**
3. **( 2 marks )**
4. Remove brackets and simplify
5. **( 2marks )**
6. **( 2marks)**
7. **( 2 marks )**
8. Evaluate the following
9. **(3marks)**
10. **( 3 marks )**
11. Given that and

Divide **( 3 marks )**

1. Given that P and Q are polynomials

Find P+Q **( 3 marks )**

1. Use general method to find square root of the following.

**( 2 marks )**

1. Expand and simplify the following **( 4 marks )**
2. Solve the following
3. **( 3 marks )**
4. **( 3 marks )**
5. Solve the following equation for x **( 3 marks)**
6. Write the following in standard notation (scientific notation). **( 3 marks )**

0.000342

1. Rationalise the denominator. **( 4marks )**

4. Find the value of **a**, **b** and **c** in the identity **( 3marks )**
5. If and find : **( 4marks )**

**GOOD LUCK !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!**