GATITU SECONDARY SCHOOL P.O BOX 327-01030 GATUNDU.

FORM 2 MATHEMATICS TUNE-UP EXAM TERM 2 2015

NAME..ADM..........................

1 Use mathematical tables to find the cubes of the following

(2mks)

a) 0.0912

(2mks)

b) 381.7

2 Evaluate by use of factors

(2mks)

a) $2\frac{93}{125}$

(2mks)

b) $\sqrt[3]{27x^3y^9}$

3 Use reciprocal tables to work out the following

a) $\frac{1}{0.025} + \frac{1}{12.5}$ (3mks)

b)

$\frac{17}{0.051} + \frac{3}{0.0027}$ (3mks)

4 Find the numerical value of

$$4096^{-3/4}$$ (2mks)

5 Simplify

a) $\dfrac{rs^2t^3 \times r^4s^5t^{-6} \times r^7s^8t^{-9}}{r^{10}s^{11}t^{-12} \times r^{13}s^{-14}t^{15}}$ (4mks)

b) $\dfrac{\sqrt[5]{32y^{10}k^{15}2^{10}}}{\sqrt[4]{16y^{12}k^{16}2^4}}$ (4mks)

6 Solve the following

a) $4^{5x} \div (2^{3x})^2 = 256$ (3mks)

b)

$$\dfrac{64^{2y} \div 16^y}{128^y \times 4^{2y}}$$ (3mks)