Name:

QUIZ – MATH GRADE 10

Evaluate or simplify as much as possible:

1. (5%) $Log_{\frac{1}{3}}(\sqrt{3}) =$

2. (5%) $3^{-\log_3(7)} =$

3. (10%) $Log_2(36) - Log_2(6) - Log_2(3) - Log_2(3) =$

4. (10%) $4^{\frac{-\log_4(9)-1}{2}} =$

5. (10%) Solve: $\left(\sqrt{5}\right)^{2x+1} = \sqrt{5}\,\dfrac{5}{25^{x-1}}$

6. (10%) Solve: Given the following equation: $2^x = 0.2$

    a. (5%) Estimate the solution: _____

    b. (5%) Write down the exact solution of the equation

7. (18%) Let $\log_2(5) = x$, $\log_2(3) = y$ Express in terms of x and y.

$Log_2(60) =$

$Log_2(\dfrac{1}{15\sqrt{2}}) =$

$Log_5(9) =$

8. (16%) Solve the equation: $\log_3(2x-1) - 2 = \log_3(x-4)$

9. (16%) Solve the equation: $\log_5(x-1) - 2\log_{25}(x+3) = -1$