Name: _____	**Subject:** Math	**Class:** 9th	**Time:** 60 minutes	Total Marks:	**30**
Unit Number: 3	**MJDexpert.com**			Obtained marks	

Q.No.1 Choose the correct Answer. $(6 \times 1 = 6)$

1. If a^x=n then:

a) $a = \log_x n$ b) $a = \log_a x$ c) $x = \log_n a$ d) $x = \log_a n$

2. The logarithm of unity to any base is.

a) 0 b) 10 c) 1 d) e

3. log e =------ where e =2.718.

a) 0 b) 0.4343 c) 1 d) ∞

4. $log\mathbf{ba}\ x\ log\mathbf{cb}$ can written as:

a) $\log_b c$ b) $\log_c a$ c) $\log_a b$ d) $\log_c b$

5. Anti-logarithm table was prepared in:

a) 1620 b) 1621 c) 1520 d) 1530

6. $(logm)^n$ can be written as.

a) $(logn)^m$ b) $nlogm$ c) $mlogn$ d) None of these

Q.No.2: Give the Short Answers. $(8 \times 2 = 16)$

i. Find "x" if log x =0.1821

ii. Write into ordinary Notation $5.06x10^{10}$.

iii. Find value of $x\ when \log_{64} x = -\frac{2}{3}$

iv. Define anti logarithm.

v. Simplify $log_{3^2} \times log_{2^{81}}$.

vi. If log 2=0.3010 log3=0.4771 and log5=0.6990 find $\log\sqrt{24}$.

vii. Write in the form of single logarithm $2logx - 3logy$.

viii. Define scientific logarithm.

Q.No.3: Give the long answers. $(4 + 4 = 08)$

a) Evaluate $\sqrt[3]{\frac{0.07921\ X\ (18.99)^2}{(5.79)^4 \times 0.9474}}$

b) Use log table to find the value of $\frac{(438)^3\sqrt{0.056}}{(388)^4}$.