The CitySchool
North Nazimabad Boys Campus

**Date: 11-02-2017**

**Class: 9-S
Subject: Maths
Teacher: Sheema Aftab**

# Topic: Indices and Algebra (reinforcement of basic concepts)

# Q1: Evaluate each of the following:

# $(\frac{5}{3})^{-2}$

# $5a^{3}$×$a^{-1}$

# $0.5^{2 }$× $8^{2}$

# Q2: Simplify each of the following:

# 4$x^{2}y^{3}$×2xy÷8x

# 2$x^{2}$×3$x^{3}$× (5x)˚

# $\frac{(2a^{4})ᵌ}{4ab}$×$\frac{16b}{(2ab)ᵌ}$

# Q3: Express the following in Ordinary Notation and Standard Form respectively:

# 3.5×$10^{4}+4.5×10^{5}$

# (8.64$×10^{10}$) ÷ (3.6×$10^{6}$)

# 23.0006

# 3769000

# 4.67×$10^{3}$

Q4: Expand each of the followings:

1. 3(2x $+7y)$(22x+7y)
2. -6(-3x $+3y)4x$
3. (4x – 3)(2x -5)
4. (a$+1)(a^{2}$-$a^{1}+1)$

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