NAME –
SECTION–

ROLL NO –

DELHI PUBLIC SCHOOL, JAMMU

(SESSON 2014-15) REVISION SHEET 1

CLASS –VIII TOPICS

SUB-MATHS (RATIONAL NUMBERS & EXPONENTS)

SECTION A

1. $|\frac{-3}{4}|$ is

   a) $\frac{3}{4}$ b) $\frac{-3}{4}$ c)) $\frac{4}{3}$ d)) $\frac{-4}{3}$

2. Commutative property of rational numbers states that (a + b) =

   a) (a+ b) b) (b +a) c) a d) b

3. The additive identity of rational numbers is

   a) 0 b) 1 c) -1 d) 2

4. If we add additive inverse of any rational number to the number the result is (a) 1 b) -1 c) 0 d) none

5. The multiplicative inverse of($\frac{-5}{9}$)is

   a) $\frac{-5}{9}$ b) $\frac{-9}{5}$ c) $\frac{9}{5}$ d) $\frac{5}{9}$

6. $(9^2 \div 9^{-2})^2 \times 9^{-4} =$

   a)1 b) 729 c) 6561 d) 1/6561

7. $(7^0 + 8^0 + 9^0)^{-2} =$

   a) 1/625 b) 9 c) 1/9 d) 625

8. $(3^{-5})^{-1} =$

   a) 1/243 b) 81 c) 1/81 d) 243

9. The reciprocal of 8^{-7} is

   a) 87 b) 8^{-7} c) 8^7 d) 1/ 8^7

10. The standard form of 0.0000009 is

a) $9x10^7$ b) $9x10^5$ c) $9x10^4$ d) $9x10^6$

SECTION -B

11. Represent $\frac{-9}{11}$ on number line.
12. what should be subtracted from(-2/3) to get (-5/6) ?
13. Write 235.367in expended form.
14. The thickness of a sheet of paper is 1.5×10^{-3} cm & the thickness of a Human hair is 6×10^{-3} cm. Compare the two.

SECTION –C

15. By what number should $\left(\frac{4}{3}\right)^{-3}$ be divided so that the quotient is $\left(\frac{16}{9}\right)^{-2}$?
16. Evaluate : $\left\{\left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-3}\right\} \div \left(\frac{1}{4}\right)^{-2}$
17. Tamanna purchased $10\frac{1}{2}$ kg of potatoes $14\frac{3}{4}$ kg of onions and $16\frac{1}{4}$ kg 0f Tomatoes. How many kilograms of tomatoes does she buy?
18. If $x = \frac{2}{3}$, $y = \frac{1}{4}$, & $z = \frac{-5}{8}$ verify that $x (y+ z) = x \times y + x \times z$.

SECTION-D

19. Insert a rational number between $(x + y)^{-1}$ & $x^{-1} + y^{-1}$, where $x = \frac{7}{9}$, $Y = \frac{3}{5}$.
20. Find four rational numbers between $\frac{6}{7}$ & $\frac{15}{2}$.
21. If $5^{4x} \times 5^{-2x} = 125 \times 5^x$, find x.
22. If $\frac{x}{y} = \left(\frac{2}{3}\right)^{-2} \times \left(\frac{3}{5}\right)^{-2}$, find $\left(\frac{y}{x}\right)^{-1}$.