**Dr. Virendra Swarup Education Centre, Panki, Kanpur**

**Revision Sheet – 5 (2019-20)**

**Class- VIII**

Q1 Evaluate 994 x 1006 by using suitable identity.

Q2 If x –y = 7 ,xy = 9 , find x2 + y2

Q3 Divide x4 +6x3+ 13x2 + 13x +8 by x2+ 3x + 2

Q4 Solve and check:

 $\frac{17 \left(2-x\right)-5 (x+12)}{1-7x}$ = 8

Q5 $\frac{\left(2x+3 \right)-( 5x-7 )}{6x +11}$ = $\frac{8}{3}$

Q6 Factorise : (1) x2 – 11x -80 (2) – 12b5- b3 + b

Q7 If the area of rectangle is 8x2- 45y2 + 18xy and one of its sides 4x + 15y, find the length of the adjacent side.

Q8 The ages of Sona and Sonali are in the ratio 5 : 3 . Five years hence, the ratio of their ages will be 10 : 7 . Find their present ages.

Q9 Two equal sides of an isosceles triangle are 3x – 1 and 2x + 2 units. The third side is 2x units. Find x and perimeter of the triangle.

Q10 What number should be added to each of the numbers 12, 22 42 and 72, so that the resulting number may be in proportion?

Q11 The sum of three consecutive multiples of 11 is 363 . Find these multiples.

Q12 The ages of Aslam and Hary are in the ratio 5 : 7 . Four years from now the ratio of their ages will be 3 : 4 . Find their present ages.

Q13 If the sum of all interior angles of a polygon is 12600, find the number of sides of polygon.

Q14 The angles of a hexagon are (2x +5 )$°$,(3x – 5 )$°,$(x + 40 ) ˚, (2x + 20 )˚,(2x + 25 )˚ and (2x +35 )˚. Find the vaiues of x

Q15 Factorise : ( ax +by )2 +(bx – ay )2

Q16 Divide : ( m2 – 14 m – 32 ) by ( m + 2)

Q17 Two adjacent sides of a parallelogram are in the ratio 5 : 7. If the perimeter of parallelogram is 72 cm , find the length of its sides.

Q18 Divide 10x4- 19x3 + 17x2 +15x – 42 by 2x2 – 3x + 5

Q19 If x - $\frac{1}{x}$ = 3, find x2 + $\frac{1}{x^{2}}$and x4 +$\frac{1}{x^{4}}$

Q20 If x2 + $\frac{1}{x^{2}}$ = 18, find the values of x + $\frac{1}{x}$ and x - $\frac{1}{x}$

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