***Grade: VI Paper: Mathematics Total marks: 50***

1. ***Find the value of each of the following by using BODMAS (5)***
2. ***{[ (- 15 + 5) × 2 + 8 ] – 32 ÷ 8 } - ( -7 )***
3. ***– 12 - [ - ( -2 ) ]***

***2) Given that X=6 and Y=4 evaluate each of the following (5)***

***a. + X***

***b. 3X + -***

***3) Find the sum of each of the following expression (5)***

***a. 3pq – 6hk , -3qp+14kh***

***b. –b - 4a , 7b - 6a***

***4) Simplify each of the following expression (5)***

***a. 9x - (-2y) - 8x - (-12y)***

***b. -7x - (-15y) - (-2x) + (-6y)***

***c. b – b***

***d. x + y + x – y***

***5) Express each of the following expression (5)***

***a. 3 (p-2q) - 4 (-2p -3q -5)***

***b. -4 [5 (2x+3y) -4 (x + 2y) ]***

***6) Express each of the following as a fraction in its simplest form (5)***

***a. –***

***b. + +***

***7) Solve each of the following expressions (5)***

***a. 4y – 1.9 = 6.3***

***b. 7y – 2 =***

***c. -3(2y+3) = 4y + 5***

***d. = 4***

***8) The formula for finding the value of X is given by A= bh where (5)***

***b and h represent the base and height of a triangle respectively***

***a. if b=20cm and h= 45cm find the area of a triangle***

***b. if b=10cm and A= 30 find the height of a triangle***

***9) if k = then (5)***

***a. find the value of p when k =7 and q = 9***

***b. find the value of k when p = 5 and q = 3***

***10) Circle thee correct option (5)***

***a. 16 \_\_\_ 64***

***1. > 2. < 3. = 4. None of these***

***b. Find the value of 4 + (-7) – (-3)***

1. ***11 2) -9 3) -12 4) 0***
2. ***-3 × (-9)***

***1) 12 2) -27 3) 27 4) -6***

***d.6 – 7 + 2 × (4 - )***

1. ***-11 2) 13 3) 12 4) 10***
2. ***If x > y then 5x \_\_\_ 5y***
3. ***5x < 5y 2) 5x > 5y 3) 5x = 5y 4) none of these***