

GURU HARKRISHAN PUBLIC SCHOOL  
HEMKUNT COLONY  
CLASS - IX  
SUBJECT-MATHS

M.M - 25

- Q 1) Find the decimal expansion of  $\frac{10}{3}$  and write what kind of decimal expansion it is?
- Q 2) Find  $125^{-1}$
- Q 3) Check whether -2 and 2 are zeroes of the polynomial  $(x-2)$ .
- Q 4) Give one example of a binomial of degree 23.
- Q 5) Factorise  $3x^2 - x - 4$
- Q 6) Find the value of K, if  $(2x-1)$  is a factor of  $F(x) = 2x^3 - Kx^2 - x + 2$
- Q 7) Represent  $\sqrt{2}$  on the number line.
- Q 8) Simplify  $\frac{3}{5-\sqrt{3}} + \frac{2}{5+\sqrt{3}}$
- Q 9) Factorise  $x^3 + 13x^2 + 32x + 20$
- Q 10) Find the value of  $\frac{2}{(216)^{2/3}} - \frac{4}{(243)^{1/5}} + \frac{1}{(256)^{-3/4}}$
- Q 11) 1) Expand  $(2x + 3Y - 4Z)^2$   
2) Factorise  $x^2 - \frac{y^2}{100}$