PANCHSHEEL PUBLIC SCHOOL

10+2 Senior Secondary School (Affiliated & Recognized by CBSE)
Jaitpur, Badarpur, New Delhi-44

MIDTERM REVISION PAPER

SESSION 2023-24

Time: 40 mins **Subject: Mathematics** **Class: VIII** **M. Marks: 50**

Name – _____ **Date - _____**

Q.1. Choose the correct option. (5 x 1 = 5)

1) In 5^3 ,_____ is the power.

a) 3 b)5 c)0

2) The sum of the angles of a quadrilateral is __.

a) 320^0 b)390^0 c)360^0

3) 18xy÷6xy=_____.

a)3 b)6 c)18

4) Square of any number is always_____.

a) Positive b)Negative c)Fraction

5) The cube of an even natural number is _____.

a) Even b)Odd c)Natural

Q2. Fillups (5 x 1 = 5)

a) ⅞ lies to the _____ of zero on number line.
b) 7^0=_____.
c) The cube of a number is the number raised to the power_____.
d) A Rational number is said to be positive if its numerator and denominator both have _____sign.
e) _____is called the multiplicative Identity.

Q.3) True / False (5 x 1 =5)

a) We can divide 1 by 0.

b) Multiplicative inverse of zero does not exist.
c) The square of prime number is prime.
d) $(a+b)^2=a^2+2ab+b^2$.
e) A quadrilateral has two diagonals.

Q4.Solve the following (2×6=12)

a) Express 3/7 with denominator 49.

b) Evaluate :-($3^5 \times 3^2$)÷3^7

c) find the sum without actual addition.

1+3+5+7+9

d) Find the square root of 625/729.

e) Evaluate $(71)^2$ using Identities.

f) In a quadrilateral angles are given 60^0,130^0 and 55^0.Find the fourth angle.

Q5.Solve the following (5×3=15)

a) What should be subtracted from 3/20 to get 3/4.

b) The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

c) The area of square field is 2025 m^2. Find the cost of fencing the field at Rs 15 per metre.

d) Find the value of 'p',if

$8p=(59)^2 - (51)^2$

e) (i)If two adjacent sides in a parallelogram are 5 cm and 4 cm.Find the perimeter of parallelogram.

(ii) Find the product of ½ × 9/16

Q6.Solve the following (4×2=8)

a) (i)The sum of two rational numbers is 2/3 if one of the rational number is -1/6.Find the other.

(ii)Find the smallest number by which 3136 must be multiplied to make a perfect cube.

b) (i) Find the value of k if $(-2)^{k+1} \times (-2)^3 = (-2)^7$

(ii) Find the least perfect square number which is exactly divisible by 8,9 and 10.