

Class: 6<sup>th</sup>  
Subject: Maths

Name: \_\_\_\_\_

**SUBJECTIVE TYPE**

Time: 2:30Hours

Max Marks: 80

Roll No: \_\_\_\_\_

**SECTION I**  
**Short Questions**

**Note: Attempt twenty five short questions.**

**2×25=50**

1. Write three consecutive whole number starting from 509.
2. Draw the whole numbers.  $> 23$  but  $\leq 34$
3. Find the sum of first five whole numbers.
4. Find the difference between the largest three-digit whole number and the smallest four digit whole number.
5. Fill in the boxes with the help of commutative and associative laws.  
 $(5 + \square) + \square = \square + (10 + 15)$
6.  $11 + \square = 13 + \square$  Fill in the boxes.
7. Solve  $1985 \div 135$
8. Fill in the boxes.  $9 \times (\square + 4) = \square \times 5 + \square \times \square$
9. Express the following in fractions and decimals. 78 %
10. Convert the following into percentage. 0.25
11. Express the following into percentage.  
90 meters out of 150 meters.
12. Define percentage.
13. Define discount.
14. Find the following percentage. 64 % of 25
15. Express the following in decimal. 16 marks out of 25 marks
16. Find the following percentage. 18.5 % of 2000
17. Replace the unknowns by the number to make the statement true.  $\frac{2}{3} m = \frac{14}{13}$
18. Define constant.
19. Define like terms.
20. Define algebraic expression.
21. Write the following in exponential form.  $pq \cdot pq \cdot pq$
22. Simplify  $x + y + z + 2x + z$
23. Simplify  $p + 2q + q + r + 2p$
24. Simplify.  $(2p + q + 2r) - (p + q + r)$
25. Add the following.  $2x^2y$  ,  $xy^2$  ,  $x^2y$
26. Solve the following equation.  $3a - 3 = 0$
27. Solve the equation.  $2 + 5x = x$
28. Solve the equation.  $2x + 2 = 14$
29. Define whole numbers.
30. Draw the number line to represent the whole numbers  $\geq 6$  but  $\leq 15$
31. Find the following percentage. 50 % of 180

**P.T.O**

32. Write the coefficient , base and exponent of the following  $\frac{1}{3}y^{-2}$
33. Write into algebraic expression. Half of x multiplied by the difference of n and m (m is less than n)
34. Ifra has 2p chocolates. She bought q more chocolates. How many chocolates she has now?
35. Find the area of square whose length of side is 7 cm.
36. Find the area of rectangle whose length =6 cm , Breadth =4 cm.
37. Find the perimeter of square whose length of side =4.5 cm

**SECTION II**  
**Long Questions**

**Note : Attempt any three questions.**

(3 x 10 = 30)

- Q .1 a) Prove and identify the law used in the following. (5)

$$123 + (231 + 321) = (123 + 231) + 321$$

- b) Prove and identify the law used in the following. (5)

$$10 \times (5 - 7) = (10 \times 5) - (10 \times 7)$$

- Q2. a) Saeed has Rs. 75. He gives 20 % of it as alms. What remains with him? (5)

- b) 85 % of the students in a school of 300 students passed an annual examination. How many of them are failed? (5)

- Q3. a) Find the sum of following algebraic expressions.

$$a^2 + 2ab + b^2 \quad ; \quad a^2 - 2ab + b^2 \quad ; \quad a^2 - ab - b^2 \quad (5)$$

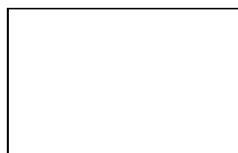
- b) Subtract  $3x^5 + 4x^4 - 8x^3 - 6$  from  $8x^5 + 5x^4 - 3x^3 + 2$  (5)

- Q4. Solve the following equations and verify the solution.

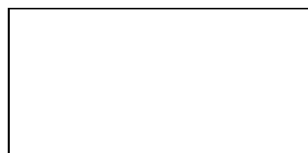
i.  $2m - 5 = \frac{1}{2} + \frac{5}{2}$  (5)

ii.  $\frac{a}{2} + \frac{a}{2} = 3a + 14$  (5)

- Q7. Find the area and perimeter of the following figures. (5+5)



7.3 cm



7.6 cm

3.8 cm

**The End**