POST TEST
STANDARD EIGHTH
ALGEBRA CHAPTER NO. 8 AND 9

(Marks 40)   **(Time 1 Hour)**

NOTES :

1. Write answer on question paper only.

2. Do rough work on separate page.

1.   Fill in the blanks.   20

     1.   Perimeter of a triangle = ...

     2.   Area of a triangle = ...

     3.   Perimeter of a rectangle = ...

     4.   Area of a rectangle = ...

     5.   Volume of rectangular perallelopiped = ...

     6. $(a + b)^2$ = ...

     7. $(a - b)^2$ = ...

     8. $a^2 - b^2$ = ...

     9. $(x + a)(x + b)$ = ...

     10.   Total Surface Area of a Cube = ...

2.   Expand (Any 10)   10

     1. $(P+4)(P-7)$ = ...

     2. $(5mn+xy)(5mn-xy)$ = ...

     3. $(ZP-5)(ZP+3)$ = ...

     4. $(P/Q - 1)(P/Q - 3)$ = ...

     5. $(m+5)^2$ = ...

     6. $(3m-2n)^2$ = ...

     7. $(2x+3y)^2$ = ...

     8. $(3p-1/5q)(3p+1/5q)$ = ...

     9. $(2x+3y)(2x-3y)$ = ...

     10. $(x+2)(x-3)$ = ...

     11. $(2x-3)^2$ = ...

     12. $(x+1/x)(x+3/x)$ = ...

3. Factorise (Any 10) 10

    1. $16x^2y - 8xy^3$
    2. $am + bm - an - bn$
    3. $9x^2 - 16$
    4. $18x^2 - 2$
    5. $p^2 + 2pq + q^2$
    6. $x^2 + 7x + 12$
    7. $x^2 - 19x + 60$
    8. $y^2 + 6y - 72$
    9. $y^4 - 6y^2 - 16$
    10. $y^2 + 6y - 72$
    11. $9x^2 - 36y^2$
    12. $2y - 10$

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