

SATISH CHANDRA MEMORIAL SCHOOL

STD VIII

CLASS TEST

Algebraic expression & Identities, Exponents & Powers

F.M: 12

1. The value of $16.1^2 - 8.9^2$ is
a) 160 b) 180 c) 170 d) 175 **(1)**

2. The value of $\frac{2^{2001} + 2^{1999}}{2^{2000} - 2^{1998}}$ is
a) 2 b) $\frac{10}{3}$ c) $2^{1000} + 1$ d) 10 **(1)**

3. Find the value of m so that $(25)^m \div 5^{-3} = 5^5$ **(2)**

4. Find x so that $5^x + 5^{x-1} = 750$ **(2)**

5. Subtract $6x^2 + 7x - 5$ from the sum of $-2x^2 + 3x + 6$ and $4x^2 + 3x - 2$ **(3)**

6. Find the product by using suitable identities:
(i) $(x - 1)(x + 1)(x^2 + 1)(x^4 + 1)$ **(1.5)**
(ii) $(a + b + 7)(a + b - 7)$ **(1.5)**