ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

Sub: Arithmetic | **Class: 7** | **Date: 15.03.21**

Duration: 40 Min | **Worksheet 18** | **Full Marks: 15**

EXPONENTS

Choose the correct options:

Question 1.
$(2^0 + 3^0) \times 4^0 =$
(a) 1
(b) 2
(c) 3
(d) 4

Question 2.
$3^0 + 4^0 + 5^0 =$
(a) 1
(b) 2
(c) 3
(d) none of these

Question 3.
Which of the following is true?
(a) $2^0 = (100)^0$
(b) $10^2 \times 10^8 = 10^{16}$
(c) $2^2 \times 3^3 = 65$
(d) $2^3 > 3^2$

Question 4.
$(2^2 \times 2)^2 =$
(a) 2^3
(b) 2^4
(c) 2^5
(d) 2^6

Question 5.
$\frac{3^8}{3^5} \times 3^3 =$
(a) 1
(b) 3
(c) 5
(d) 6

Question 6.
$(\frac{a^4}{a^2} \times a^3 =)$
(a) a^4
(b) a^5
(c) a^6
(d) a^8

Question 7.
$8^2 \div 2^4$ =
(a) 1
(b) 2
(c) 3
(d) 4

Question 8.
$(-2a)^3$ =
(a) $2a^3$
(b) $4a^3$
(c) $8a^3$
(d) $-8a^3$

Question 9.
$a^m \div b^m$ =
(a) $a^m\ b^m$
(b) $(\frac{a}{b})^m$
(c) $\frac{a}{b}$
(d) 1

Question 10.
$(ab)^m$ =
(a) $a^m\ b^m$
(b) $a^m b$
(c) ab^m
(d) ab

Question 11.
333 in standard form is
(a) 3.33×10^2
(b) 3.33×10^3
(c) 3.33×10^1
(d) 3.33×10^4

Question 12.
6000 in standard form is
(a) 6×10^3
(b) 6×10^6
(c) 6×10^4
(d) 6×10^5

Question 13.
3430000 in standard form is
(a) 3.43×10^6
(b) 3.43×10^4
(c) 3.43×10^2
(d) 3.43×10^{10}

Question 14.
1353000000 in standard form is
(a) 1.353×10^{9}
(b) 1.353×10^{6}
(c) 1.353×10^{3}
(d) 1.353×10^{12}

Question 15.
100000000000 in standard form is
(a) 1×10^{8}
(b) 1×10^{9}
(c) 1×10^{10}
(d) 1×10^{11}