

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

EXPONENTS AND POWERS

SESSION -2024-25

CLASS - 7th

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Time : 1 hr ∴ Exponents and powers :-

mm!

Q. 1. Simplify -

(i) $5^2 \times 3^3$

(ii) $3^2 \times 10^4$



Q. 2. Simplify

(i) $(-2)^3 \times (-10)^3$

(ii) $(-3)^2 \times (-5)^2$

Q. 3. Use laws of exponents, simplify and write the answer in exponential form!

(i) $(3^4)^3$

(ii) $(2^{20} \div 2^{15}) \times 2^3$

Q. 4. Simplify the exponential form:

(i) $\frac{3 \times 7^2 \times 11^8}{21 \times 11^3}$

(ii) $\frac{2^8 \times 9^5}{4^3 \times 3^3}$



Q. 5. Express each of the following as a product of prime factors only in exponential form!

(i) $\frac{(2^5)^2 \times 7^3}{8^3 \times 7}$

(ii) $\frac{3^5 \times 10^5 \times 25}{5^7 \times 6^5}$

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Q. 6. Write the following numbers in the expanded form:

(i) 279404

(ii) 20068



Q. 7. Find the number form each of the following expanded form:

(a) $8 \times 10^4 + 6 \times 10^3 + 0 \times 10^2 + 4 \times 10^1 + 5 \times 10^0$

(b) $9 \times 10^5 + 2 \times 10^2 + 3 \times 10^1$

Q. 8. Express the following number in standard form:

(i) 5,00,00,00

(ii) 3908.78



Q. 9. Express the number appearing in the following statements in standard form:

(i) Diameter of the Sun is 1,27,56,000 m

(ii) Speed of light in ~~vac~~ vacuum is 300,000,000 m/s

Q. 10. Express in exponential form:

(i) 108×192

(ii) 729×64

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