

By. Er. Dharmendra Sir

7974073108, 9584873492

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 - 8th

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Time : 1 hr ∴ Exponents and powers :- mm!

Q. 1. Evaluate :

$$(i) (5^{-1} \times 2^{-1}) \times 6^{-1} \quad (ii) \frac{8^{-1} \times 5^3}{2^{-4}}$$



Q. 2. Simplify :

$$(i) \left(\frac{5}{8}\right)^{-7} \times \left(\frac{8}{5}\right)^{-4} \quad (ii) \frac{3^{-5} \times 10^{-5} \times 125}{5^{-7} \times 6^{-5}}$$



Q. 3. Find the value of :

$$(i) (3^0 + 4^{-1}) \times 2^1 \quad (ii) \left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$$

Q. 4. Express the following numbers in standard form:

$$(i) 0.0000000085 \quad (ii) 0.0000000942$$

Q. 5. Express the following numbers in usual form:

$$(i) 3.02 \times 10^{-6} \quad (ii) 3.61492 \times 10^6$$

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Q. 6. Express the number appearing in the following statements in standard form.

(i) 1 micron is equal to $\frac{1}{1000000}$ m



(ii) Thickness of a thick paper is 0.07 mm

Q. 7. In a stack there are 5 books each of thickness 20 mm and 5 paper sheets each of thickness 0.016 mm. What is the total thickness of the stack.



Q. 8. Simplify and express the result in power notation with positive exponents.

(i) $(-3)^4 \times \left(\frac{5}{3}\right)^4$

(ii) $(3^{-7} \div 3^{-10}) \times 3^{-5}$

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