



REET 2025

LEVEL-2



वंदन बैच

MATHS

Algebra

(बीजगणित)

Part -5



LIVE

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REET 2025 LEVEL-2 वंदन बैच MATHS

$$\textcircled{1} [5(8^{1/3} + 27^{1/3})]^{1/2} = ?$$

DSSSB PRT 26/03/2022
Shift-1

$$\Rightarrow [5(2+3)]^{1/2}$$

$$25^{1/2} = \sqrt{25} = 5$$

$$x^3 = x \times x \times x$$

$$x^{1/3} = \sqrt[3]{x}$$



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$$\textcircled{2} \quad 4^{x-2} = 2^{x+1}$$
$$x = ?$$

$$\Rightarrow (2^2)^{x-2} = 2^{x+1}$$

$$2^{2(x-2)} = 2^{x+1}$$

$$2x - 4 = x + 1$$

$$x = 5 \text{ Ans.}$$

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$$\textcircled{3} \quad a = \sqrt{6 - \sqrt{11}}$$

$$b = \sqrt{6 + \sqrt{11}}$$

$$(b - a) = ?$$

- $\textcircled{A} \quad 2$
- ☒ $\textcircled{B} \quad \sqrt{2}$
- $\textcircled{C} \quad 0$
- $\textcircled{D} \quad 1$

$$\Rightarrow \left(\sqrt{6 + \sqrt{11}} - \sqrt{6 - \sqrt{11}} \right)^2 = (b - a)^2$$

$$6 + \cancel{\sqrt{11}} + 6 - \cancel{\sqrt{11}} - 2\sqrt{(6 + \sqrt{11})(6 - \sqrt{11})}$$

$$12 - 2\sqrt{(6)^2 - (\sqrt{11})^2}$$

$$12 - 2\sqrt{36 - 11} = 12 - 2 \times 5 \\ = 12 - 10 = 2$$

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

$$b - a = \sqrt{2} \quad \underline{\underline{\text{Ans.}}}$$



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$$\textcircled{4} \quad \sqrt{16+6\sqrt{7}} = \sqrt{x} + \sqrt{y}$$
$$x+y=?$$

$$\Rightarrow \quad a=3 \quad b=\sqrt{7}$$

$$9 + 7$$

$$(3)^2 + (\sqrt{7})^2 + 2 \times 3 \times \sqrt{7}$$

$$a^2 + b^2 + 2ab$$

$$(a+b)^2$$

$$(3+\sqrt{7})^2$$

~~$$\sqrt{(3+\sqrt{7})^2} = \sqrt{x} + \sqrt{y}$$~~

$$\sqrt{9} + \sqrt{7} = \sqrt{x} + \sqrt{y}$$

$$x=9, \quad y=7 \quad \textcircled{16} \text{ Ans.}$$



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5

$$\sqrt{\frac{(0.56)^2 + (0.66)^2 + (0.0076)^2}{(0.056)^2 + (0.066)^2 + (0.00076)^2}} \quad \text{DSSSB PRT 2022}$$

$$\Rightarrow \sqrt{\frac{\left(\frac{56}{100}\right)^2 + \left(\frac{66}{100}\right)^2 + \left(\frac{76}{10000}\right)^2}{\left(\frac{56}{100}\right)^2 + \left(\frac{66}{100}\right)^2 + \left(\frac{76}{10000}\right)^2} \left(\frac{10}{10}\right)^2}$$
$$\sqrt{\frac{10}{10}} = \sqrt{100} = 10$$



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⑥ $(7^6 \times 7^9)^2$

$\Rightarrow (7^{15})^2$
 7^{30}

$$x^m \times x^n = x^{m+n}$$

$$(x^m)^n = x^{m \times n}$$



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(7) $8^3 \times 8^2 \times 8^{-5}$ [KVS]

$\Rightarrow 8^{3+2-5}$

$8^0 = 1$



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$$\textcircled{8} \quad a = 4$$

$$a + \sqrt{a} = ?$$

DSSSB प्रश्नरी शिक्षक

$$\Rightarrow 4 + \sqrt{4}$$

$$4 + 2 = \textcircled{6}$$

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$$\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}} = ?$$

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$$\Rightarrow \frac{\sqrt{16 \times 2} + \sqrt{16 \times 3}}{\sqrt{4 \times 2} + \sqrt{4 \times 3}}$$

$$\frac{4\sqrt{2} + 4\sqrt{3}}{2\sqrt{2} + 2\sqrt{3}} = \frac{\cancel{4}(\sqrt{2} + \sqrt{3})}{\cancel{2}(\sqrt{2} + \sqrt{3})} = 2$$

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$$\textcircled{10} \quad \sqrt{\frac{49}{x}} = \frac{21}{36}$$

$$\Rightarrow \sqrt{\frac{7}{x}} = \frac{7}{12} \quad x = ?$$

$$\sqrt{x} = 12$$

$$x = (12)^2 = \underline{144} \text{ Ans}$$



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(QVS) ⑪

$$\sqrt[6]{100}$$

$$\sqrt[3]{12}$$

$$\sqrt{3}$$

which one is Greater?

$\Rightarrow$

$$(100)^{\frac{1}{6} \times 6}$$

$$(12)^{\frac{1}{3} \times 6}$$

$$(3)^{\frac{1}{2} \times 6}$$

$$(100)^1$$

$$(12)^2$$

$$(3)^3$$

$$100$$

$$144$$

$$27$$

$$\sqrt[3]{12}$$



REET 2025 LEVEL-2 वंदन बैच MATHS

⑫

$$\left(\frac{81}{16}\right)^{-3/4} \times \left[\left(\frac{25}{9}\right)^{-3/2} \div \left(\frac{5}{2}\right)^{-3} \right]$$

$$\left(\frac{16}{81}\right)^{3/4} \times \left[\left(\frac{9}{25}\right)^{3/2} \div \left(\frac{2}{5}\right)^3 \right]$$

$$\left[\left(\frac{2}{3}\right)^4\right]^{3/4} \times \left\{ \left(\frac{3}{5}\right)^{3/2} \right\}^{3/2} \div \frac{8}{125}$$

$$\frac{\cancel{8}}{\cancel{27}} \times \frac{\cancel{27}}{125} \times \frac{125}{\cancel{8}} = 1$$

$$\left(\frac{x}{y}\right)^{-x} = \left(\frac{y}{x}\right)^{+x}$$

$$\frac{x}{y} \div \frac{a}{b} = \frac{x}{y} \times \frac{b}{a}$$



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