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Prayas JEE 2026

Mathematics

Basic Maths

DPP: 2

Q1 "Zero" is
(A) positive number
(B) negative number
(C) both positive as well as negative
(D) neither positive nor negative

Q2 If $f(x) = \frac{x-|x|}{|x|}$, then $f(-1) =$

Q3 If $x, y, z \in R$ and $x^2 + 4y^2 + 9z^2 - 2x - 4y - 6z + 3 = 0$ then value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ is equal to
(A) 4
(B) 6
(C) 2
(D) Cannot be fixed values

Q4 If $b = \sqrt{6 + 2\sqrt{5}} + \sqrt{6 - 2\sqrt{5}}$, then the value of b is equal to
(A) $3\sqrt{5}$
(B) $2\sqrt{5}$
(C) $6\sqrt{3}$
(D) $8\sqrt{2}$

Q5 The value of $(\sqrt[3]{4} - \sqrt[3]{10} + \sqrt[3]{25})(\sqrt[3]{2} + \sqrt[3]{5})$ is equal to.

Q6 If $x = 3 + \sqrt{8}$ and $y = 3 - \sqrt{8}$ then $\frac{1}{x^2} + \frac{1}{y^2} =$
(A) -34 (B) 34
(C) 12 (D) -12

Q7 Which one is the greatest in the following?
(A) $\sqrt{2}$
(B) $\sqrt[3]{3}$
(C) $\sqrt[3]{4}$
(D) $\sqrt[3]{2}$

Q8 If $x + y = a$ and $x^2 + y^2 = b$, then value of $\left(x^3 + y^3\right)$, is
(A) ab
(B) $a^2 + b$
(C) $a + b^2$
(D) $\frac{3ab - a^3}{2}$

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Answer Key

Q1	(D)	Q5	7
Q2	-2	Q6	(B)
Q3	(B)	Q7	(C)
Q4	(B)	Q8	(D)

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