

## 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  $(x^3 + y^3)$ , is  
 (A)  $ab$   
 (B)  $a^2 + b$   
 (C)  $a + b^2$   
 (D)  $\frac{3ab - a^3}{2}$


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## Answer Key

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Q1 (D)

Q2 -2

Q3 (B)

Q4 (B)

Q5 7

Q6 (B)

Q7 (C)

Q8 (D)



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