

JEE MAIN LIMITS AND DERIVATIVES — INTUITIVE IDEA OF LIMITS, ALGEBRA OF LIMITS — PYQS

Max. Marks: 4

Questions: 1

Section B (Numerical) — 1 question

- Q.1** Let $[t]$ be the greatest integer less than or equal to t . Then the least value of $p \in \mathbb{N}$ for which
- $$\lim_{x \rightarrow 0^+} \left(x \left(\left[\frac{1}{x} \right] + \left[\frac{2}{x} \right] + \dots + \left[\frac{p}{x} \right] \right) - x^2 \left(\left[\frac{1}{x^2} \right] + \left[\frac{2^2}{x^2} \right] + \dots + \left[\frac{p^2}{x^2} \right] \right) \right) \geq 1$$
- is equal to _____.

[JEE Main 2025 (Online) 29th January Morning Shift]

Scan or tap for the
full solution



ANSWER KEY

Ques.	1										
Ans.	24										