

**JEE MAIN MECHANICAL PROPERTIES OF FLUIDS — STREAMLINE
FLOW AND EQUATION OF CONTINUITY — PYQS**

Max. Marks: 4

Questions: 1

Section A (MCQ) — 1 question

Q.1 A water spray gun is attached to a hose of cross sectional area 30 cm^2 . The gun comprises of 10 perforations each of cross sectional area of 15 mm^2 . If the water flows in the hose with the speed of 50 cm/s , calculate the speed at which the water flows out from each perforation. (Neglect any edge effects) [JEE Main 2026 (Online) 4th April Evening Shift]

- (1) 100 m/s (2) 10 m/s
(3) 1000 m/s (4) $15 \times 10^2 \text{ m/s}$

Scan or tap for the
full solution**ANSWER KEY**

Ques.	1													
Ans.	2													