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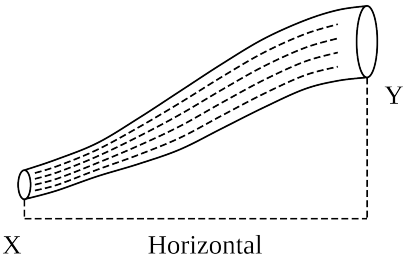
NEET MECHANICAL PROPERTIES OF FLUIDS — STREAMLINE FLOW AND EQUATION OF CONTINUITY — PYQS

Max. Marks: 8 **Questions:** 2

Section A (MCQ) — 2 questions

Q.1 An ideal fluid is flowing in a non-uniform cross-sectional tube XY (as shown in the figure) from end X to end Y. If K_1 and K_2 are the kinetic energy per unit volume of the fluid at X and Y respectively, then the correct option is :

[RE-NEET (UG) 2024]



(1) $K_1 = K_2$ (2) $2K_1 = K_2$

(3) $K_1 > K_2$ (4) $K_1 < K_2$

Scan or tap for the full solution

Q.2 The cylindrical tube of a spray pump has radius R, one end of which has n fine holes, each of radius r. If the speed of the liquid in the tube is V, the speed of the ejection of the liquid through the holes is

[AIPMT 2015]

(1) $\frac{VR^2}{n^3r^2}$ (2) $\frac{V^2R}{nr}$ (3) $\frac{VR^2}{n^2r^2}$ (4) $\frac{VR^2}{nr^2}$

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2									
Ans.	3	4									