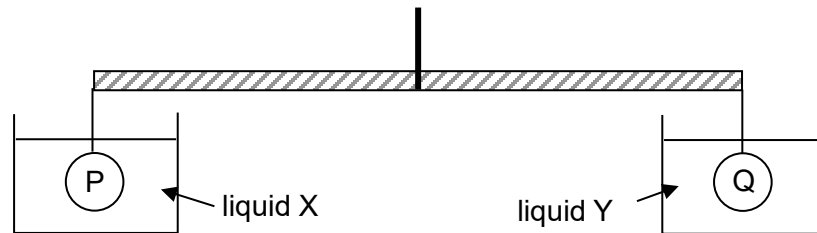


- 8 Two objects P and Q having the same volume are hung at either ends of a light uniform rod and subsequently submerged in two different liquids X and Y respectively. The density of liquid X is greater than that of liquid Y. The system is balanced when a string is hung right at the centre of the rod as shown in the figure below.



Which of the following statements is correct?

- A** P and Q experience the same magnitudes of upthrust.
- B** Upthrust acting on P is smaller than the upthrust acting on Q.
- C** Mass of P is smaller than mass of Q.
- D** Mass of P is greater than mass of Q.