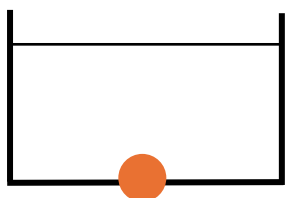


- 7 A ball which is less dense than water is held in the water by a string at the base of a tank. The string is cut and the ball rises to the surface of the water and eventually floats on the water. Fig. I shows when the ball is held by the string, Fig. II when the ball is rising and Fig. III when the ball is floating on the water.



I

Fig. I

held by string

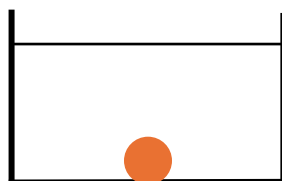


Fig. II

rising

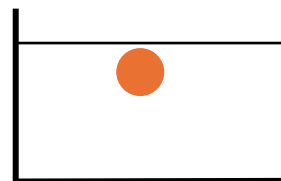


Fig. III

floating

In which figure(s) is the upthrust and the resultant force acting on the ball the greatest?

	upthrust	resultant force
A	I	II
B	I	I & II
C	I & II	II
D	I & II	III