JEE 2015 Physics

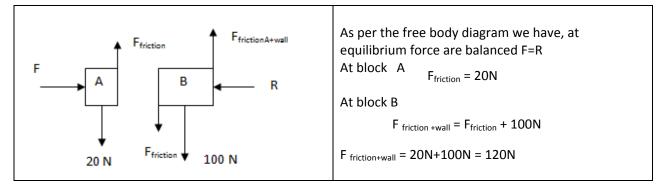


SelfStudy.in

3. Given in the figure are two blocks A and B of weight 20 N and 100 N, respectively. These are being pressed against a wall by a force F as shown. If the coefficient of friction between the blocks is 0.1 and between block B and the wall is 0.15, the frictional force applied by the wall on block B is:



Answer: Block B of higher mass will experience higher gravity 100N, hence frictional force will be upward between surface of contact between B and wall. There is also equal and opposite frictional force acting between the surface of contact between A , B. The applied force F is balanced by the equal and opposite reactive force R by wall on B. Free body diagram as shown



Correct option is (3) 120N