



the figure. Take







 $m_1 = 3 \text{ kg}$, $m_2 = 2 \text{ kg}$ and F = 5 N.

(A) Find the force of contact between the two blocks.

(B) Show that it the same force F = 5 N is applied to m₂ rather than m₁ then the force of contact between the two blocks will have a different value.

11. The two blocks shown in figure are connected by a heavy uniform rope of mass 4 kg. An upward force of 200 N is applied as shown in figure.

(a) What is the acceleration of the system?

(b) What is the tension at the top of the heavy rope?



ANSWER KEY

Q.1 B	Q.2 C	Q.3 A	Q.4 True	Q.5 False	Q.6 100N,0
Q.7 A,B,D					
Q.8 A,C					
Q.9 – 3 m/s ²					
Q.10 2N					
Q.11 (a) 2.69 m/s ² upward (b) 112.5 N (c) 87.5 N					



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