- b) The cylinder has a mass of 20 kg and is released from rest when h=0.fig 7.b. Determine its speed when h=3m. The springs each have an unstretched length of 2m. (k=40N/m) [8]
- c) A ball of mass 0.15 kg is approaching with a velocity of 30 m/s on to a stationary block of mass 0.2 kg centrally as shown in fig 7.c. If coefficient of restitution between the ball and block is e=0.7, find the distance travelled by the block on a flat horizontal rough surface with dynamic friction μ_k=0.3.

0.15 kg 0.2 kg

Fig 7.c