	_
(i) Add labelled arrows to the diagram to show the directions of two of the acting on ball X.	
(ii) Evalain why hall V clove down and stone	(2)
(ii) Explain why ball X slows down and stops.	(3)
b) The golfer hits ball Y at an angle into the air.	
He gives it the same initial kinetic energy as ball X.	
Suggest why ball Y travels much further than ball X before it stops.	(1)



(c) The mass of ball Y is 45 g.	
The golfer gives the ball 36 J of kinetic energy when he hits it.	
(i) State the equation linking kinetic energy, mass and speed.	(1)
(ii) Calculate the initial speed of ball Y.	(4)
initial speed =	m/s
(iii) Ball Y reaches a maximum height of 30 m.	:
Suggest how the golfer should hit ball Y so it can reach a greater he	(1)
(Total for Question 1	3 = 12 marks)
(Total for Question)	3 – 12 marks)

