Question Number	Answer	Mark
14(a)		
( )	Use $E_{\rm K} = \frac{1}{2}  m  v^2$ (1)	
	Use of efficiency = $\frac{\text{useful energy output}}{\text{total energy input}}$ (1)	
	Efficiency = $0.56 \text{ Or } 56\%$	3
	Example of calculation $E_{\rm K} = 0.5 \times 1560{\rm kg} \times (13{\rm m~s^{-1}})^2 = 1.32 \times 10^5{\rm J}$ efficiency = $73.9 \times 10^4{\rm J} \div 1.32 \times 10^5{\rm J} = 0.56$	
14(b)(i)	As the velocity increases the drag forces increase. (1)	1
14(b)(ii)	At higher speeds more work done against air resistance.  So more energy dissipated.  So a smaller proportion of energy is available to charge battery.  (Hence) the efficiency of the system is lower.  (1)	
	Total for question 14	8