

Chapter 11 Forces. (Revision Questions page 340). Multiple Choice Answers

Q	Ans	Explanation
1	D	That is the force that the student produces on the Earth. It may also be equal to the push upwards of the chair (the normal force) but it is not the 3 rd Law pair. The 3 rd law pair is the upward force on the Earth
2	C	Answer: Option C. The ball's acceleration decreases with time until it is zero at terminal velocity
3	B	$F_{\text{net}} = \frac{\Delta p}{t}$ $= \frac{mv - mu}{t}$ $= \frac{m(\Delta v)}{t}$ $= ma$
4	B	$a = \frac{F_{\text{net}}}{m}$ and $m = \text{total mass}$ Total mass = $M + \text{hanging mass}$ $m = M + \frac{F_g}{g}$ (hanging mass is just the weight F_g divided by g)
5	B	Negative acceleration means the object is getting faster in the negative direction or slower in the positive direction.

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