

4	<p>C is the only correct answer (mass will oscillate at the frequency of the vibration generator.)</p> <p>A is not the correct answer, as the amplitude is only a maximum for resonance B is not the correct answer, as the mass is forced to oscillate at the vibrator frequency D is not the correct answer, as the energy transfer is only a maximum for resonance</p>	1
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4	<p>B is the only correct answer</p> <p>A is not the correct answer, as acceleration is always towards the equilibrium point C is not the correct answer, as acceleration is always towards the equilibrium point D is not the correct answer, as this would increase the energy of oscillation</p>	(1)
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6	<p>B is the correct answer</p> <p>A is not correct, as this describes an elastic material C is not correct, as this describes a strong material D is not correct, as this describes a stiff material</p>	(1)
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4	<p>D is the only correct answer</p> <p>A is not the correct answer, as acceleration can be in the same or the opposite direction to velocity B is not the correct answer, as acceleration can be in the same or the opposite direction to velocity C is not the correct answer, as acceleration is always towards the equilibrium point</p>	(1)
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2	<p>A is the only correct answer, as ductile materials deform plastically</p>	1
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2	<p>D is the correct answer (these materials deform plastically)</p> <p>A is not correct because this will not absorb energy from the oscillation B is not correct because this will not absorb energy from the oscillation C is not correct because this will absorb and then return energy to the oscillation</p>	1
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