

Question number	Answer	Mark
10	<p>The only correct answer is D because short de Broglie wavelengths are needed to investigate the structure of nucleons at smaller scales</p> <p>Incorrect answers</p> <p>A these experiments are not about the creation of new particles</p> <p>B negative electrons do not experience repulsive electrostatic forces from positive protons or neutral neutrons</p> <p>C particle lifetime is not relevant as all of the particles involved are believed to be stable, as long as neutrons are in a nucleus</p>	(1)