

- 7 (a) The following particles are used to describe the structure of an atom.

electron neutron proton quark

Underline the fundamental particles in the above list. [1]

- (b) The following equation represents the decay of a nucleus of ${}^{60}_{27}\text{Co}$ to form nucleus Q by β^- emission.



- (i) Complete Fig. 7.1.

	value
A	
B	

Fig. 7.1

[1]

- (ii) State the name of the particle x.

.....[1]

[Total: 3]