

7 (a) State and explain whether a neutron is a fundamental particle.

.....  
..... [1]

(b) A proton in a stationary nucleus decays.

(i) State the **two** leptons that are produced by the decay.

.....  
..... [2]

(ii) Part of the energy released by the decay is given to the two leptons.

State **two** possible forms of the remainder of the released energy.

.....  
..... [2]

[Total: 5]