

8 (a) State the name of the class (group) to which each of the following belongs:

electron

neutron

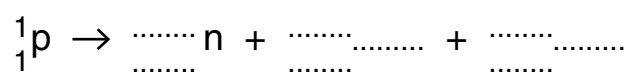
neutrino

proton

[2]

(b) A proton may decay into a neutron together with two other particles.

(i) Complete the following to give an equation that represents this proton decay.



[2]

(ii) Write an equation for this decay in terms of quark composition.

[1]

(iii) State the name of the force responsible for this decay.

.....[1]

[Total: 6]