<table>
<tr><th>Question number</th><th>Answer</th><th>Notes</th><th>Marks</th></tr>
<tr><td>2 (a)</td><td>all three correct ticks = 3 marks;;;
two correct ticks = 2 marks;;
one correct tick = 1 mark;

<table><tr><th>Statement</th><th>Correct (✓)</th></tr><tr><td>uranium-235 loses a proton to become uranium-236</td><td></td></tr><tr><td>uranium-235 absorbs a neutron to become uranium-236</td><td>✓</td></tr><tr><td>daughter cells are produced when uranium-236 splits</td><td></td></tr><tr><td>the nuclear energy store of uranium-236 increases when it splits</td><td></td></tr><tr><td>two or three neutrons are typically released when uranium-236 splits</td><td>✓</td></tr><tr><td>energy is transferred to the kinetic store of the fission products when uranium-236 splits</td><td>✓</td></tr></table></td><td>-1 for 4 ticks
-2 for 5 ticks
0 marks if all ticked</td><td>3</td></tr>
<tr><td>(b)</td><td>neutron / n / neutrons;</td><td></td><td>1</td></tr>
<tr><td>(c)</td><td>B (a helium nucleus);

A is incorrect because this describes gamma radiation
C is incorrect because this describes beta radiation
D is incorrect because this describes neutron radiation</td><td></td><td>1</td></tr>
<tr><td>(d)</td><td>beta (minus);</td><td>accept β, β^-
reject beta plus</td><td>1</td></tr>
</table>

Total for Question 2 = 6 marks