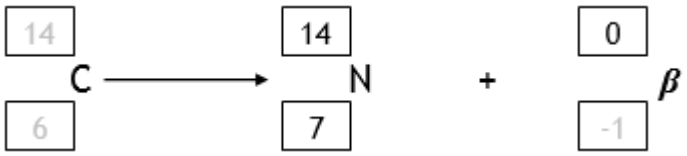
<table>
<tr><th>Question number</th><th>Answer</th><th>Notes</th><th>Marks</th></tr>
<tr><td>1 (a) (i)</td><td>1 mark for each correct property;;

<table><tr><th>Type of Radiation</th><th>Nature</th><th>Relative Charge</th><th>Ionising Ability</th></tr><tr><td>alpha (α)</td><td>helium nucleus</td><td>(+)2</td><td>high</td></tr><tr><td>beta (β)</td><td>(high energy) electron</td><td>-1</td><td>medium</td></tr><tr><td>gamma (γ)</td><td>electromagnetic wave</td><td>0</td><td>low</td></tr></table></td><td>reject -2</td><td>2</td></tr>
<tr><td>(ii)</td><td>alpha / α;</td><td></td><td>1</td></tr>
<tr><td>(iii)</td><td>alpha and beta / α and β;</td><td>both required but can be in either order</td><td>1</td></tr>
<tr><td>(b)</td><td>top line correct;
bottom line correct;

e.g.
 
</td><td>e.g. 14, 0
e.g. 7</td><td>2</td></tr>
</table>

Total for question = 6 marks