

7 (a) State what is meant by

α -particle:

β -particle:

γ -radiation:

[2]

(b) Describe the changes to the proton number and the nucleon number of a nucleus when emission occurs of

(i) an α -particle,

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..... [1]

(ii) a β -particle,

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..... [1]

(iii) γ -radiation.

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..... [1]