

Name : _____ Date : _____

BALANCING NUCLEAR EQUATIONS

1. Write balanced equations for the following nuclear reactions.

(i) Beta decay of Sr-90.

(ii) Uranium-238 decays by emitting an alpha particle to form a thorium-234 atom.

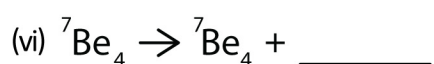
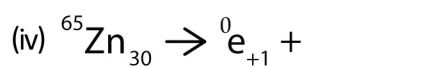
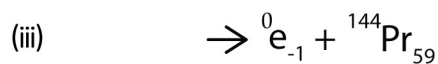
(iii) Potassium-40 decays to calcium-40 by beta emission.

(iv) Technetium-99 decays by beta emission to form ruthenium-99.

(v) Phosphorous-32 decays by beta emission to form sulfur-32.

(vi) Francium-212 decays by alpha emission.

2. Fill in the blanks to complete the following nuclear reactions.



BALANCING NUCLEAR EQUATIONS

1. Answers

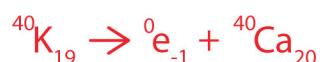
(i) Beta decay of Sr-90.



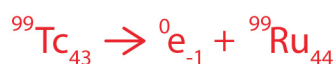
(ii) Uranium-238 decays by emitting an alpha particle to form a thorium-234 atom.



(iii) Potassium-40 decays to calcium-40 by beta emission.



(iv) Technetium-99 decays by beta emission to form ruthenium-99.



(v) Phosphorous-32 decays by beta emission to form sulfur-32.



(vi) Francium-212 decays by alpha emission.



2.

