

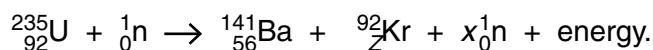
7 (a) Uranium (U) has at least fourteen isotopes. Explain what is meant by *isotopes*.

For
Examiner's
Use

[2]

[2]

(b) One possible nuclear reaction involving uranium is



(i) State three quantities that are conserved in a nuclear reaction.

1.

2.

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[2]

[3]

(ii) For this reaction, determine the value of

1 7

[1]

3 v

x = [1]