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reactions. Solution: A is alpha particle, B is neutron, C is proton and D is electron. Question 2.

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physics (or atom physics) is the field of physics that studies atoms as an isolated system of electrons and an atomic nucleus.

## **1.3. Basic Principles of Nuclear Physics**

31.1: Nuclear Radioactivity. 1. Suppose the range for  $\alpha$  is  $5.0 \text{ MeV}$

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ray is known to be 2.0 mm in a certain material. Does this mean that every  $5.0 \text{ MeV}\alpha$  a ray that strikes this material travels 2.0 mm, or does the range have an average value with some statistical fluctuations in the distances traveled?

## **31.E: Radioactivity and Nuclear**

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