

A Level Physics A

H556/02 Exploring physics

Question Set 30

1 (a) Describe the basic structure of an X-ray tube and explain how X-ray photons are produced. You may draw a labelled diagram.

[3]

(b) A beam of X-rays is directed at tissues in a patient. The X-ray photons interact with the atoms of the tissues.

Simple scatter is one of the attenuation mechanisms.

Name and describe **two** other attenuation mechanisms.

[4]

Total Marks for Question Set 30: 7



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