

NAME:

RADIOACTIVITY

- 1. B
- 2. A
- 3. A
- 4. D
- 5.

(a) 0 and - 1 for b;
234 and 91 for Pa; 2

(b) An explanation to include:
1. gamma ray a wave;
2. no mass/protons; 2

[4]

6.

(a) gamma; 1

(b) (i) beta; 1

(ii) An explanation to include:
1. alpha would not penetrate/alpha all absorbed/alpha stopped by paper/eq;
2. all gamma would penetrate (too much)/gamma not absorbed;
[Accept alpha not strong enough and gamma is too strong/eq for 1 max] 2

[4]

7.

- (a) paper stops α ; C1
sheet of paper makes no difference to count rate A1
- (b) Aluminium absorbs α allow aluminium stops α ; C1
Aluminium makes count rate decrease A1
- (c) (10mm) lead / Pb stops all α OR only α gets through (10 mm) lead / Pb B1
still some count rate with lead / Pb B1 [6]

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Page 1

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