Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: GCSE Triple Science Atomic Structure (Low Demand Questions)

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Name of the Student:_____
Max. Marks : 24 Marks **Time : 24 Minutes**

Mark Schemes

Q1.

(a) cosmic rays **1**

radon gas **1**

(b) radioactive decay is a random process **1**

(c) the lead lining absorbs the emitted radiation **1**

(d) subtract the background count from 159 **1**

(e) beta **1**

beta is negatively charged **1**

(so is) attracted to positive plate
or
(so is) repelled by negative plate **1**

[8]

Q2.

(a) neutrons and protons **1**

(b) 0 **1**

(+)1 **1**

(c) (i) total positive charge = total negative charge
accept protons and electrons have an equal opposite charge **1**

(because) no of protons = no of electrons **1**

(ii) ion **1**

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positive

1

[7]

Q3.

(a) (i) neutron

1

(ii) neutron
proton
both required, either order

1

(iii) 2

1

number of <u>protons</u>
do not accept number of electrons

1

(b) (i) any **one** from:

- beta
- gamma

accept correct symbols
accept positron / neutrino / neutron
cosmic rays is insufficient

1

(ii) electrons

1

(iii) are highly ionising

1

(c) (i) mutate / destroy / kill / damage / change / ionise
Harm is insufficient

1

(ii) much smaller than

1

[9]

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