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

Merit Minds
www.merit-minds.com
Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Mark Schemes

Q1.

(a) 2 protons and 2 neutrons

1

(b) an electron

1

(c) $^{85}_{36}Kr \longrightarrow {}^{85}_{37}Rb + {}^{0}_{-1}e$

1

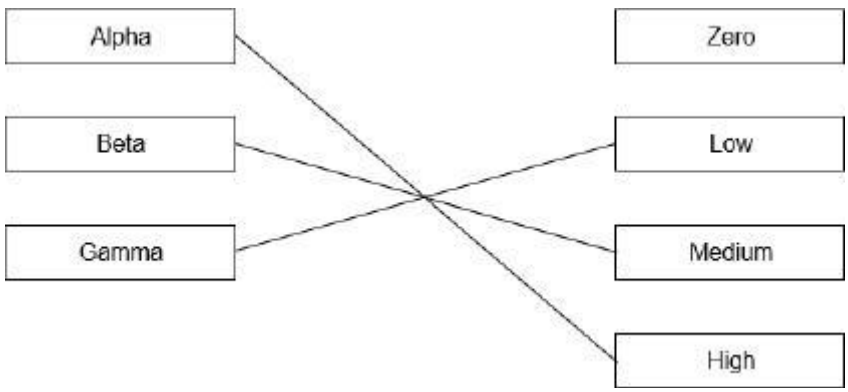
(d)

Type of radiation	Most radiation is stopped by:		
	the sheet of paper	the sheet of aluminium	the block of lead
Alpha	Yes	Yes	Yes
Beta	No	Yes	Yes
Gamma	No	No	Yes

1 *mark for each correct row*
allow ticks and crosses in place of yes and no
any incorrect answer on a row negates the mark for the row

3

(e)



1 *mark for each correct line*
if more than one line drawn from radiation type list principle applies

3

(f) nuclear accidents

1

Downloaded from www.merit-minds.com

(g) number = 2.0

1

number = 400

1

[12]

Q2.

(a) atomic number

1

(b) number of neutrons

1

(c) Alpha

1

(d) Beta

1

(e) decrease

1

increase

this order only

1

(f) the time it takes for the count rate of a sample to halve

1

(g) so the activity of the source is approximately constant

1

[8]

Downloaded from www.merit-minds.com