Practice Question Set For GCSE

Subject: Physics

Q1.

Name of the Student: __ Max. Marks : 18 Marks Merit Minds www.merit-minds.com Exam Preparation and Free Resources

Time: 18 Minutes

(2)

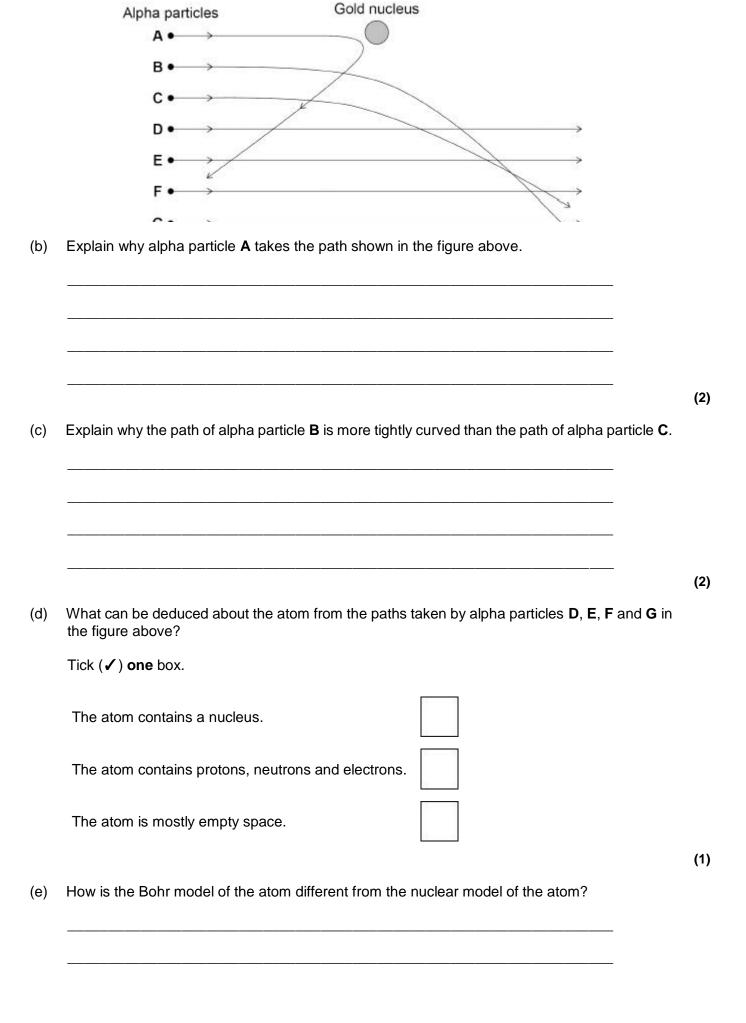
Paper-1 Topic: GCSE Triple Science Atomic Structure (High Demand Questions)

D (1.1	Year of
Particle	discovery
Electron	1897
Neutron	1911
Nucleus	1920

The nucleus was discovered using an alpha particle scattering experiment.

Alpha particles were directed at a sheet of gold foil.

The figure below shows the paths taken by seven alpha particles, A, B, C, D, E, F and G.



		(1
(f)) Explain how an electron can move up and down between energy levels in an atom.	
		-
		_
		(2 (Total 10 marks
Q2.		
A	lpha particles, beta particles and gamma rays are types of nuclear radiation.	
(a		
		-
(b	A krypton (Kr) nucleus decays into a rubidium (Rb) nucleus by emitting a beta partic	(1 :le.
	Complete the nuclear equation for this decay by writing the missing number in each	box.
	$Rb + _{-1}^{0}e$	
		(2
(c	 Internal contamination of the human body means radioactive material is inside the h body. 	uman
	Explain how the risk from internal contamination is different to the risk from external by a source of alpha radiation.	irradiation
		_
		_
		_
		_
		_
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	(5)
(Total	l 8 marks)