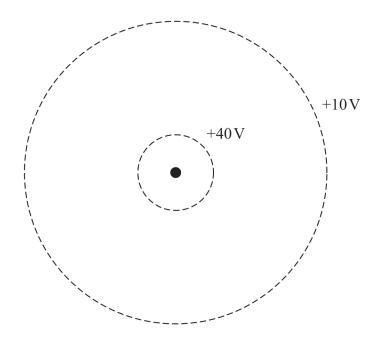
- 15 Alpha particles were chosen by Rutherford for large-angle scattering experiments.
 - (a) Explain why alpha particles are more suitable for these experiments compared to beta particles or gamma rays.

(3)



(b) The scaled diagram shows two equipotential lines in the electric field around a gold nucleus.



(i) Sketch lines to show the electric field between these two lines of equipotential.

(3)



se in potential energy =	eV
(Total for Question 15 = 12 marks)	

(3)

(3)