Answer ALL question		
	 • .	 

- 1 Unstable nuclei can emit particles.
  - (a) Which of these particles has the largest charge?

(1)

- B beta particle
- ☑ D proton
- (b) Which of these particles has the largest mass?

(1)

- A alpha particle
- B beta particle
- □ D proton
- (c) The maximum range of a beta particle in air is about

(1)

- B 50 cm

- (d) When a nucleus emits a beta particle

(1)

- ☑ A the nucleon number decreases by 1
- ☑ B the nucleon number increases by 1
- C the proton number decreases by 1
- ☑ D the proton number increases by 1

(Total for Question 1 = 4 marks)

