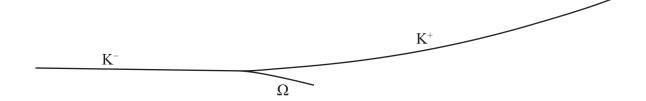
**16** The diagram shows particle tracks in a detector. A negative K meson collided with a stationary proton. An omega baryon and a positive K meson were produced after the impact.



(a) Explain the process that enables a particle detector to detect charged particles.

(2)

(b) (i) Describe the structure of a baryon and a meson.

(2)

(ii) A magnetic field acts in the detector.

State the direction of the magnetic field.

(1)

(Total for Question 16 = 14 marks)