

2 A stationary electron is in a uniform field of force.

(a) Describe the direction of the force on the electron relative to the direction of the field if the field is

(i) a gravitational field,

..... [1]

(ii) an electric field,

..... [1]

(iii) a magnetic field.

..... [1]

(b) Describe and explain the path the electron will take when it moves at right angles to each field.

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..... [5]

[Total: 8]