

8 (a) Explain the concept of work.

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..... [2]

- (b) A table tennis ball falls vertically through air. Fig. 8.1 shows the variation of the kinetic energy E_K of the ball with distance h fallen. The ball reaches the ground after falling through a distance h_0 .

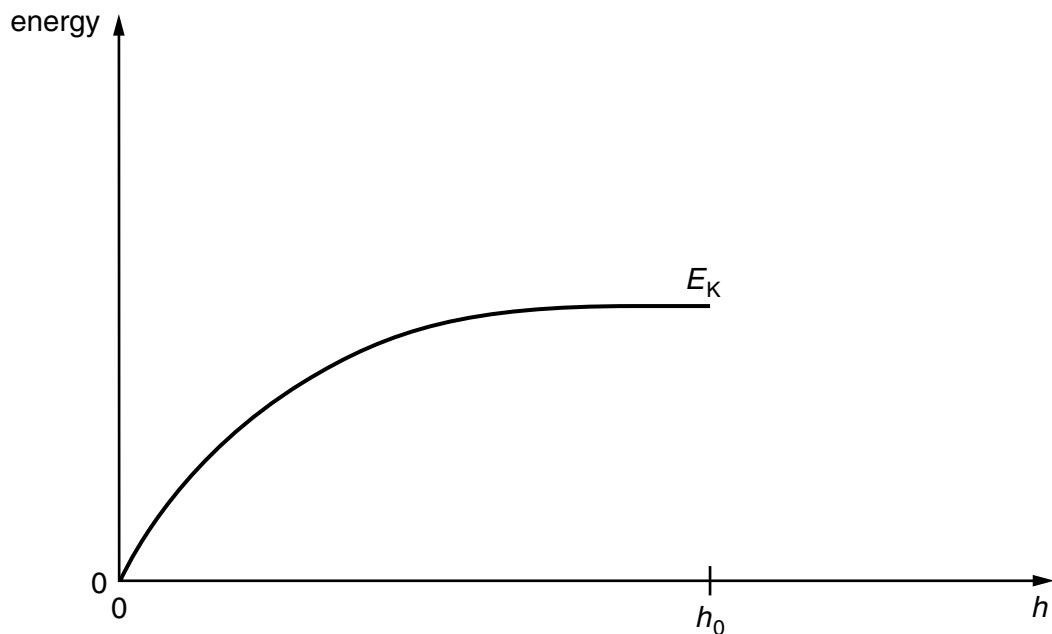


Fig. 8.1

- (i) Describe the motion of the ball.

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..... [3]

- (ii) On Fig. 8.1, draw a line to show the variation with h of the gravitational potential energy E_P of the ball. At $h = h_0$, the potential energy is zero. [3]