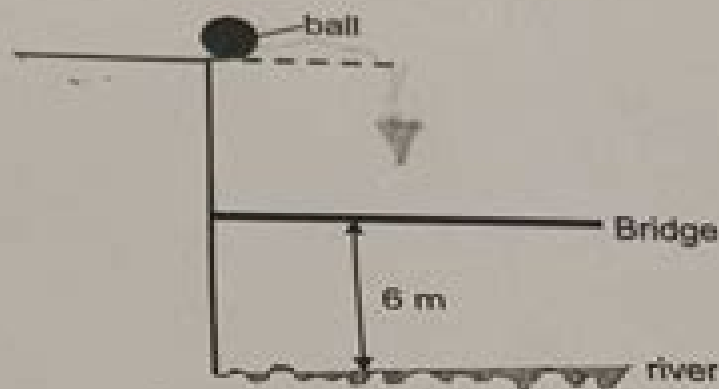


QUESTION 5 (Start on a new page)

A ball is dropped from the top of a vertical cliff overlooking a river. On its way down the ball passes a bridge that is 6 m above the surface of the river, as the diagram below illustrates.



The ball strikes the surface of the river with a speed of $30 \text{ m}\cdot\text{s}^{-1}$.

Ignore the effects of air resistance.

- 5.1 Define, in words, the term *Mechanical energy*. (2)
- 5.2 State, in words, the *Principle of conservation of Mechanical energy*. (2)
- 5.3 Applying the Principle in QUESTION 5.2, show, by means of an appropriate calculation, that the speed of the ball as it passes the bridge is $27,97 \text{ m}\cdot\text{s}^{-1}$. (4)
- 5.4 Calculate the height above the surface of the river from which the ball is dropped. (6)

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