## Question

Consider a planet moving in an elliptical orbit round the sun. The work done on the planet by the gravitational force of the sun

A is zero in any small part of the orbit.

**B** is zero in some parts of the orbit.

**c** is zero in one complete revolution.

**D** is zero in no part of the motion.

## Solution

Correct option is B)

The work done is zero at points A and B, since the force acts along the AB axis and the motion is perpendicular to it(W =

 $|F| |S| \cos \theta$ 

