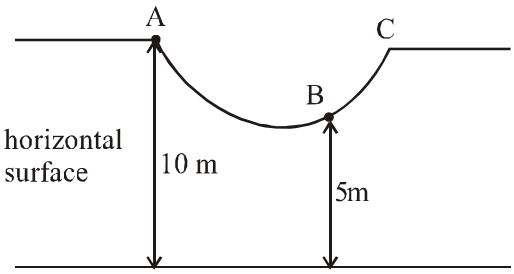
KQStart: P0100389
KClass: 11
KSubject: Physics
KType: NTQ
KChapter: Work, Energy and Power
KTopic: Work energy theorem and its application,type of energy
KDifficulty: Low
KAppearedIn:
KQuestionEnglish:

As shown in the figure, a particle of mass 10 kg is placed at a point A. When the particle is slightly displaced to its right, it starts moving and reaches the point B. The speed of the particle at B is x m/s. (Take g = 10 m/s^2)

The value of 'x' to the nearest integer is_____



KOptionsEnglish:

KQuestionHindi:

KOptionsHindi:

KQuestionGujarati:

KOptionsGujarati:

KNoOfOptions:0
KOptions:None
KAnswer: 10
KSolutionSteps:

Using work energy theorem,

$W_g = \Delta K.E.$

$(10)(g)(5) = \frac{1}{2}(10)v2 - 0$

$v = 10$ m/s

KSolutionVideo:
KQEnd: P0100389