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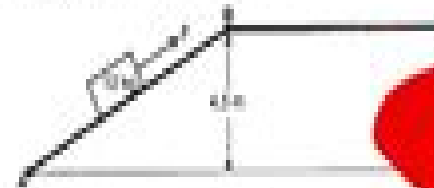
Department
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REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

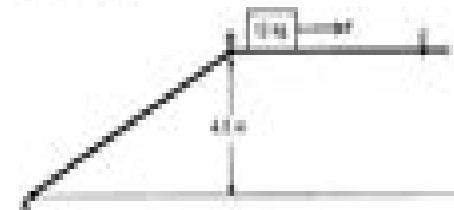
(QUESTION 6 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 3.00 m/s. See the diagram below.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 6.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (4)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 6.4 Calculate the distance from point A to point B. (5)

(10)

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web in the diagram below you can see the absorption spectra of three key pigments in photosynthesis chlorophyll a chlorophyll b and β carotene the set of wavelengths that a pigment doesn't absorb are reflected and the reflected light is what we see as color

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web sep 9 2023 chlorophyll is a pigment present within plants chlorophyll is the key pigment produced by the chloroplasts within the plant cell which initiates photosynthesis the absorption spectrum of chlorophyll is in the visible range from 400 to 700nm this begins with the 400nm meter region where the light is blue to the 700nm region where

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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