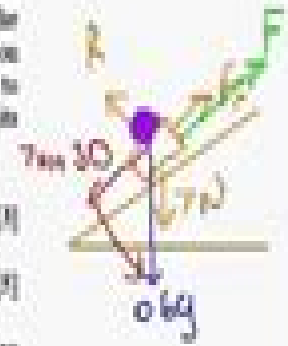




(i)  $Q$   $F = ma$   
 $0.5g - T = 0.5 \times 1.4$   
 $T = \frac{21}{5} = \underline{\underline{4.2 \text{ N}}}$

A block  $B$  is placed on a plane inclined at  $30^\circ$  to the horizontal. A particle  $P$  of mass  $0.6 \text{ kg}$  is placed on the upper surface of  $B$ . The particle  $P$  is attached to one end of a light inextensible string which passes over a smooth pulley fixed to the top of the plane. A particle  $Q$  of mass  $0.5 \text{ kg}$  is attached to the other end of the string. The portion of the string attached to  $P$  is parallel to a line of greatest slope of the plane, the portion of the string attached to  $Q$  is vertical and the string is taut. The particles are released from rest and start to move with acceleration  $1.4 \text{ ms}^{-2}$  (see diagram). It is given that  $B$  is in equilibrium while  $P$  moves on its upper surface.



- (i) Find the tension in the string while  $P$  and  $B$  are in contact. [1]
- (ii) Calculate the coefficient of friction between  $P$  and  $B$ . [1]
- (iii) Given that the weight of  $B$  is  $7 \text{ N}$ , calculate the set of possible values of the coefficient of friction between  $B$  and the plane. [1]

(ii)  $P$   $R(\perp)$   $R = \cos 30 \times 0.6 \text{ kg}$   
 $R = 5.09$   
 $4.2 - (\sin 30 \times 0.6) - \mu(5.09) = 0.6 \times 1.4$   
 $\mu = \underline{\underline{0.0825}}$

$F = \mu R$   
 $= 0.0825 \times 5.09$   
 $= 0.42$

(iii)  $R(\perp)$   $R = \cos 30 \times (0.6g + ?)$   
 $R = 11.2$   
 $R(\parallel)$   $F + F = 7 \sin 30$   
 $F_1 + 0.42 = 7 \sin 30$   
 $F_1 = 3.08$   
 $F_1 = \mu R$   
 $\mu = \frac{F_1}{R} = \frac{3.08}{11.2} = 0.276 \quad \mu \geq \underline{\underline{0.276}}$

# June 2013 Markscheme Mechanics 1 Ocr

**David Baud**



**June 2013 Markscheme Mechanics 1 Ocr:**

The book delves into June 2013 Markscheme Mechanics 1 Ocr. June 2013 Markscheme Mechanics 1 Ocr is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into June 2013 Markscheme Mechanics 1 Ocr, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to June 2013 Markscheme Mechanics 1 Ocr
  - Chapter 2: Essential Elements of June 2013 Markscheme Mechanics 1 Ocr
  - Chapter 3: June 2013 Markscheme Mechanics 1 Ocr in Everyday Life
  - Chapter 4: June 2013 Markscheme Mechanics 1 Ocr in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of June 2013 Markscheme Mechanics 1 Ocr. This chapter will explore what June 2013 Markscheme Mechanics 1 Ocr is, why June 2013 Markscheme Mechanics 1 Ocr is vital, and how to effectively learn about June 2013 Markscheme Mechanics 1 Ocr.
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