

POKHARA UNIVERSITY

Level: Bachelor
Programme: BE
Course: Applied Mechanics (New)

Semester: Spring

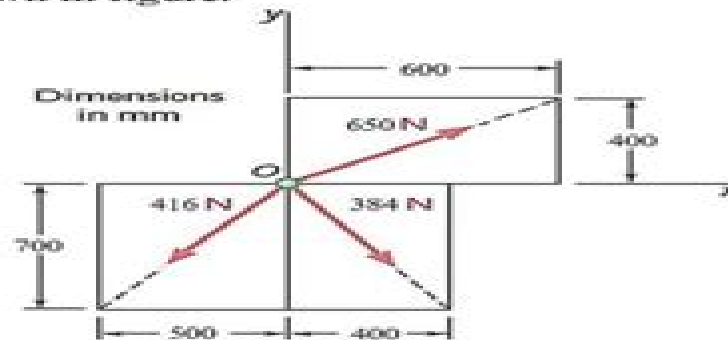
Year : 2024
Full Marks : 100
Pass Marks : 45
Time : 3 hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

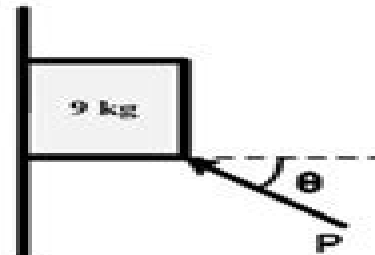
Attempt all the questions.

1. a) Determine the magnitude and direction of resultant of three forces acting at point O as shown in figure. 7



OR (1a)

As shown in figure below, knowing that $\theta = 42^\circ$ determine the smallest force P for which equilibrium of the 9 kg block is maintained. Take $\mu_s = 0.40$ and $\mu_k = 0.30$.



- b) A square foundation mat supports the four columns with the weight as shown. Determine the magnitude and point of application of the resultant of the four loads. 8

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