

G11 PHYSICAL SCIENCE PAPER 1 REVISION

QUESTION 2 (Start on a new page.)

Three forces, **P**, **Q** and **R**, of magnitudes 800N, 200N and 600N respectively, act on a point **O** in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by
CALCULATION

(8)
[8]

QUESTION 3 (Start on a new page.)

A constant force, **F**, pulls a 35kg block at a constant speed over a rough horizontal surface, **AB**, as shown in the diagram below. The coefficient of kinetic friction (μ_k) between the block and the surface is 0,4.



3.1 Draw a labelled free-body diagram showing ALL the forces acting on the block. (4)

3.2 State Newton's first law of motion in words. (2)

Calculate the magnitude of the:

3.3 Force **F** (6)

Physical Science Paper 1

Mr. Rohit Manglik



Physical Science Paper 1:

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Physical Sciences and History of Physics Robert S. Cohen,Marx W. Wartofsky,2012-12-06 These essays on the conceptual understanding of modern physics strike directly at some of the principal difficulties faced by contemporary philosophers of physical science Moreover they reverberate to earlier and classical struggles with those difficulties Each of these essays may be seen as both a commentary on our predecessors and an original analytic interpretation They come from work of the past decade most from meetings of the Boston Colloquium for the Philosophy of Science and they demonstrate again how problematic the fundamentals of our understanding of nature still are The themes will seem to be familiar but the variations are not only ingenious but also stimulating in some ways counterpoint And so once again we are confronted with issues of space and time irreversibility and measurement matter and process hypothetical reality and verifiability explanation and reduction phenomenal base and sophisticated theory unified science and the unity of nature and the limits of conventionalism We are grateful for the cooperation of our contributors and in particular for the agreement of George Ellis and C F von Weizsäcker to allow us to use previously published papers

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the city is traditionally one of the cultural centres of europe hosting many cultural events some of the significant cultural institutions include the national theatre národní divadlo and the estates theatre stavovské or tylovo or nosticovo divadlo where the premières of mozart s don giovanni and la clemenza di tito were held other major cultural institutions are the rudolfinum which is home to the czech philharmonic orchestra and the municipal house which is home to the prague symphony orchestra

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