

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)

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JL Elias



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Applied Environmental Materials Science for Sustainability Kobayashi, Takaomi, 2016-12-21 The growing presence of biomass and waste has caused significant changes to the environment With the ubiquity of these materials there is an increasing need for proper disposal and reuse of these resources Applied Environmental Materials Science for Sustainability is a key resource on the latest advancements in environmental materials including the utilization of biomass and waste for advanced materials Highlighting innovative studies on renewable resources green technology and chemical modification this book is an ideal reference source for academics researchers professionals and graduate students in the field of environmental and materials sciences and technologies

Electrochemistry and Catalytic Reactions Editor's Pick

2024 Tomas Ramirez Reina, Nosang Vincent Myung, 2024-12-24 We are pleased to introduce the collection Frontiers in Chemistry Electrochemistry and Catalytic Reactions Editor's Pick 2024 This collection showcases the most well received spontaneous articles from the past couple of years and has been specially handpicked by our Chief Editors The work presented here highlights the broad diversity of research performed across the sections and aims to put a spotlight on the main areas of interest All research presented here displays strong advances in theory experiment and methodology with applications to compelling problems

Coming of Age in Iran Manata Hashemi, 2020-05-12 An inside look at young Iranians navigating poverty and stigma in a time of crisis Crippling sanctions inflation and unemployment have increasingly burdened young people in the Islamic Republic of Iran In Coming of Age in Iran Manata Hashemi takes us inside the lives of poor Iranian youth showing how these young men and women face their future prospects Drawing on first hand accounts Hashemi follows their stories one by one as they struggle to climb up the proverbial ladder of success Based on years of ethnographic research among these youth in their homes workspaces and places of leisure Hashemi shows how public judgments can give rise to meaningful changes for some while making it harder for others to escape poverty Ultimately Hashemi sheds light on the pressures these young men and women face showing how many choose to comply with rather than resist social norms in their pursuit of status and belonging Coming of Age in Iran tells the unprecedented story of how Iran's young and struggling attempt to extend dignity and alleviate misery illuminating the promises and limits of finding one's place during a time of profound uncertainty

Annual Plant: Sources of Fibres, Nanocellulose and Cellulosic

Derivatives Ramzi Khiari, Mohammed Jawaid, Mohamed Naceur Belgacem, 2023-07-01 This book gives an overview of the processing properties and applications of fibers and cellulose derivatives obtained from annual plant materials in the formation of non wood source of pulp The book comprises illustrations and tables summarizing the latest research on the production of fibers and cellulose derivatives using several key methods and or characterization techniques This book collates the information and knowledge of new ways to prepare cellulosic derivatives and describe the concepts and architecture of fibers obtained from annual plants This book caters to researchers policymakers and industrial practitioners

who are interested in natural fibers as a way to preserve the forest resource and to satisfy the increasing demand in pulps
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Who Marquis,Marquis Who's Who,2007-12 **Who's who in Engineering** ,1995 **Thomas Register of American
Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs Who's Who in the Midwest Marquis Who's
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North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Puerto Rico and the Virgin Islands Because
of its importance and its contiguity to the southwestern United States Mexico is also covered in this volume Who's Who
Among African Americans Gale Group,2002-07 This critically acclaimed reference provides biographical and career details on
notable African Americans including leaders from sports the arts business religion and more Who's who in America ,2003
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