

SCIENCE
Part - I : Physical Sciences
(English version)

Parts A and B

[Max. Marks : 40]

Time : 1 hour 30 min.]

Instructions :

- (i) Read the question paper and understand every question thoroughly and write answers in given 1 hr. 30 min. time.
- (ii) 3 very short answer questions are there in **section-I**. Each question carries 2 marks. Answer all the questions. Write answer to each question in 3 to 4 sentences.
- (iii) 3 short answer questions are there in **section-II**. Each question carries 4 marks. Answer all the questions. Write answer to each question in 5 to 6 sentences.
- (iv) 3 essay type questions are there in **section-III**. Each question carries 6 marks. Answer any two questions. Write answer to each question in 8 to 10 sentences.

PART - A

Time : 1 hour 15 minutes

Marks : 30

3 × 2 = 6

SECTION - I

Instructions :

- (i) 3 very short answer questions are there in this **section-I**.
- (ii) Answer all the questions. Each question carries 2 marks.
- (iii) Write answer to each question in 3 to 4 sentences.

1. Write any two daily life uses of Baking soda.
2. Write the required materials, chemicals for "esterification reaction" activity

Memorandum Physical Science Paper 2 Feb March 2012

Harrison Akins



Memorandum Physical Science Paper 2 Feb March 2012:

Earthmasters Clive Hamilton, 2013-02-15 DIV This book goes to the heart of the unfolding reality of the twenty first century international efforts to reduce greenhouse gas emissions have all failed and before the end of the century Earth is projected to be warmer than it has been for 15 million years The question can the crisis be avoided has been superseded by a more frightening one what can be done to prevent the devastation of the living world And the disturbing answer now under wide discussion both within and outside the scientific community is to seize control of the very climate of the Earth itself divDIV divDIV Clive Hamilton begins by exploring the range of technologies now being developed in the field of geoengineering the intentional enduring large scale manipulation of Earth s climate system He lays out the arguments for and against climate engineering and reveals the extent of vested interests linking researchers venture capitalists and corporations He then examines what it means for human beings to be making plans to control the planet s atmosphere probes the uneasiness we feel with the notion of exercising technological mastery over nature and challenges the ways we think about ourselves and our place in the natural world div *Technological Innovation in Legacy Sectors* William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors **This Changes Everything** Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change **The Secure and the Dispossessed** Nick Buxton, Ben Hayes, 2015-11-20 While the world s scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures *Where Have All the Democrats Gone?* Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and

Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In *Where Have All the Democrats Gone* John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

A Practice of Ethics for Global Politics Jack L. Amoureux, 2015-10-05 What kind of ethics in world politics is possible if there is no foundation for moral knowledge or global reality is at least complex and contingent Furthermore how can an ethics grapple with difference a persistent and confounding feature for global politics This book responds to the call for a bold and creative approach to ethics that avoids assuming or aspiring to universality and instead prioritizes difference complexity and uncertainty by turning to reflexivity not as method or methodology but as a practice of ethics for politics This practice ethical reflexivity offers individuals organizations and communities tools to recognize interrogate and potentially change the stories they tell about politics about constraints notions of responsibility and visions of desirability The benefits and limits of ethical reflexivity are investigated by the author who engages writing on critique rhetoric affect and relationality and carefully considers dominant and alternative framings of difficult issues in International Relations IR the 1994 genocide in Rwanda and the US policies of enhanced interrogation and drone strikes This path breaking study provokes new possibilities for agency and action and contributes to a growing literature in IR on reflexivity by uniquely elaborating its promise as an ethics for politics and by drawing on thinkers less utilized in discussions of reflexivity such as Hannah Arendt Michel Foucault and Aristotle This book will appeal to scholars and upper level graduates in several sub fields of IR including international global ethics IR theory global governance international organizations non governmental organizations foreign policy analysis and US foreign policy

Across Space and Time Arianna Travaglia, 2025-10-01 This volume presents a selection of the best papers presented at the forty first annual Conference on Computer Applications and Quantitative Methods in Archaeology The theme for the conference was Across Space and Time and the papers explore a multitude of topics related to that concept including databases the semantic Web geographical information systems data collection and management and more

Assessment of Advanced Solid-State Lighting National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Solid-State Lighting, 2013-04-27 The standard incandescent light bulb which still works mainly as Thomas Edison invented it converts more than 90% of the consumed electricity into heat Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light there is potential to decrease the amount of

energy used for lighting in both commercial and residential applications Although technologies such as compact fluorescent lamps CFLs have emerged in the past few decades and will help achieve the goal of increased energy efficiency solid state lighting SSL stands to play a large role in dramatically decreasing U S energy consumption for lighting This report summarizes the current status of SSL technologies and products light emitting diodes LEDs and organic LEDs OLEDs and evaluates barriers to their improved cost and performance Assessment of Advanced Solid State Lighting also discusses factors involved in achieving widespread deployment and consumer acceptance of SSL products These factors include the perceived quality of light emitted by SSL devices ease of use and the useful lifetime of these devices issues of initial high cost and possible benefits of reduced energy consumption

Cities Ian Douglas,2013-05-30 Cities are amongst our greatest creations Yet at the start of the twenty first century there is increasing concern over their unchecked expansion and the detrimental effect this is having on the planet as induced climate change and ever increasing demands upon the world s resources take effect How can we make the world s cities more sustainable Ian Douglas tells the story of cities why they exist how they have evolved the problems they have encountered and those they will face as our century progresses Global in geographical coverage and ranging from the cities of the classical world to the megacities of today it is the first comprehensive environmental history of cities

The Terrorism Trap Harrison Akins,2023-06-20 After two decades and trillions of dollars the United States fight against terrorism has achieved mixed results Despite the vast resources and attention expended since 9 11 terrorism has increased in many societies that have been caught up in the war on terror Why have U S policies been unable to stem the tide of violence Harrison Akins reveals how the war on terror has had the unintended consequence of increasing domestic terrorism in U S partner states He examines the results of U S backed counterterrorism operations that targeted al Qaeda in peripheral regions of partner states over which their central governments held little control These operations often provoked a violent backlash from local terrorist groups leading to a spike in retaliatory attacks against partner states Senior U S officials frequently failed to grasp the implications of the historical conflict between central governments and the targeted peripheries Instead they exerted greater pressure on partner states to expand their counterterrorism efforts This exacerbated the underlying conditions that drove the escalating attacks trapping these governments in a deadly cycle of tit for tat violence with local terrorist groups This process Akins demonstrates accounts for the lion s share of the al Qaeda network s global terrorist activity since 2001 Drawing on extensive primary sources including newly declassified documents dozens of in depth interviews with leading government officials in the United States and abroad and statistical analysis The Terrorism Trap is a groundbreaking analysis of why counterterrorism has backfired

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