

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

Physical Science Paper March 2memo

Zhe Xu



Physical Science Paper March 2memo:

Federal Register ,2012-06 **How We Teach Science** John L. Rudolph,2019-06-01 Despite an enduring belief that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and determine how science is perceived by the public **Technical Memorandum** ,1951 Chiefly translations from foreign aeronautical journals *Chemical News and Journal of Physical Science* ,1894 The Chemical News and Journal of Physical Science ,1904 **The Atomic West** Bruce W. Hevly,John M. Findlay,2011-12-01 The Manhattan Project the World War II race to produce an atomic bomb transformed the entire country in myriad ways but it did not affect each region equally Acting on an enduring perception of the American West as an empty place the U S government located a disproportionate number of nuclear facilities particularly the ones most likely to spread pollution in western states The Manhattan Project manufactured plutonium at Hanford Washington designed and assembled bombs at Los Alamos New Mexico and detonated the world s first atomic bomb at Alamogordo New Mexico on June 16 1945 In the years that followed the war the U S Atomic Energy Commission selected additional western sites for its work Many westerners initially welcomed the atom Like federal officials they too regarded their region as empty or underdeveloped Facilities to make test and base atomic weapons sites to store nuclear waste and even nuclear power plants were regarded as assets By the 1960s and 1970s however regional attitudes began to change At a variety of locales ranging from Eskimo Alaska to Mormon Utah westerners devoted themselves to resisting the atom and its effects on their environments and communities Just as the atomic age had dawned in the American West so its artificial sun began to set there The Atomic West brings together contributions from several disciplines to explore the impact on the West of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s An impressive example of the benefits of interdisciplinary studies on complex topics The Atomic West advances our understanding of both regional history and the history of science and does so with human communities as a significant focal point The book will be of special interest to students and experts on the American West environmental history and the history of science and technology **Resources in Education** ,1988-12 **New Trends in the History of Science** ,2024-12-09 *We Could Not Fail* Richard Paul,Steven Moss,2015-05-01 The Space Age began just as the struggle for civil rights forced Americans to confront the long and bitter legacy of slavery discrimination and violence against African Americans Presidents John F Kennedy and Lyndon Johnson utilized the space program as an agent for social change using federal equal employment opportunity laws to open workplaces at NASA and NASA contractors to African Americans while creating thousands of research and technology jobs in the Deep South to ameliorate poverty We Could Not Fail tells the inspiring largely unknown story of how shooting for the stars helped to overcome segregation on earth Richard Paul and Steven Moss profile ten

pioneer African American space workers whose stories illustrate the role NASA and the space program played in promoting civil rights They recount how these technicians mathematicians engineers and an astronaut candidate surmounted barriers to move in some cases literally from the cotton fields to the launching pad The authors vividly describe what it was like to be the sole African American in a NASA work group and how these brave and determined men also helped to transform Southern society by integrating colleges patenting new inventions holding elective office and reviving and governing defunct towns Adding new names to the roster of civil rights heroes and a new chapter to the story of space exploration *We Could Not Fail* demonstrates how African Americans broke the color barrier by competing successfully at the highest level of American intellectual and technological achievement *Guide to U.S. Government Publications* Donna Batten, 2001

From Medical Chemistry to Biochemistry Robert E. Kohler, 1982-05-31 This penetrating case study of institution building and entrepreneurship in science shows how a minor medical speciality evolved into a large and powerful academic discipline Drawing extensively on little used archival sources the author analyses in detail how biomedical science became a central part of medical training and practice The book shows how biochemistry was defined as a distinct discipline by the programmatic vision of individual biochemists and of patrons and competitors in related disciplines It shows how discipline builders used research programmes as strategies that they adapted to the opportunities offered by changing educational markets and national medical reform movements in the United States Britain and Germany The author argues that the priorities and styles of various departments and schools of biochemistry reflect systematic social relationships between that discipline and biology chemistry and medicine Science is shaped by its service roles in particular local contexts This is the central theme The author's view of the political economy of modern science will be of interest to historians and social scientists scientific and medical practitioners and anyone interested in the ecology of knowledge in scientific institutions and professions *Restructuring Of Physical Sciences In Europe And The United States - 1945-1960, The - Proceedings Of The International Conference* Michelangelo De Maria, Mario Grilli, Fabio Sebastiani, 1989-06-01

Stratospheric Ozone and Man Frank A. Bower, 2018-01-10 The book as originally conceived was to be limited to technical considerations but the scientific course of event has been so interwoven with non scientific but nevertheless related events the authors felt necessary to include an account of this situation Accordingly the book is divided into five sections entitled Stratospheric ozone Atmospheric processes influencing stratospheric ozone Does man influence stratospheric ozone Effects and research Public policy **Final Report** United States. Advisory Committee on Weather Control, 1958

Waves on Beaches and Resulting Sediment Transport R. E. Meyer, 2013-09-24 *Waves on Beaches and Resulting Sediment Transport* documents the proceedings of an Advanced Seminar held in October 1971 aiming to offer a coherent interdisciplinary view of the state of physical research in coastal oceanography and the direction in which this subject is moving The articles range from wave refraction to littoral erosion and the authors from geologists to mathematicians The book opens with a study on the

characteristics of wave records in the coastal zone This is followed by separate chapters on sediment transport in beaches equations for water waves small amplitude normal oscillations of a liquid body and wave behavior near caustics in models and in nature Subsequent chapters deal with nonlinear wave interaction in a variety of physical phenomena including deep water waves the study of longshore currents sediment suspension by periodic waves forms of sediment accumulation in the beach zone run up on beaches and the wave breaking process in shallow water **NASA Technical Memorandum** ,1994

Nugget Coombs Tim Rowse,2005-09-27 H C Coombs was one of the most influential Australians of the twentieth century Born in 1906 he is best known as the governor of the Reserve Bank but the breadth of his activities and his commitment to public life until his death is unsurpassed Tim Rowse traces Coombs life from his childhood in Western Australia to his many roles as policy maker change agent advocate and adviser Particularly interested in Coombs as an economist Tim Rowse shows that a key motif in his life as a public servant was to create an economic rationality among the political elite that was socially integrative and that looked beyond the strictures of economics to environmental sustainability scientific and artistic creativity This 2002 book covers Coombs life from birth to death providing intriguing insights into the life of one of Australia s most influential people STRATOSPHERIC OZONE & MAN MAN'S INTERACTIONS & CONCERNS

Bower,Richard B. Ward,1982-03-15 Yerkes Observatory, 1892-1950 Donald E. Osterbrock,2008-04-15 Drawing on his experience as historian of astronomy practicing astrophysicist and director of Lick Observatory Donald Osterbrock uncovers a chapter in the history of astronomy by providing the story of the Yerkes Observatory

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

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