



education

Department of
Education
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PHYSICAL SCIENCES PAPER 1 (PHYSICS)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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areas **The Making of Modern Physics in Colonial India** Somaditya Banerjee, 2020-05-14 This monograph offers a cultural history of the development of physics in India during the first half of the twentieth century focusing on Indian physicists Satyendranath Bose 1894 1974 Chandrasekhara Venkata Raman 1888 1970 and Meghnad Saha 1893 1956 The analytical category bhadrak physics is introduced to explore how it became possible for a highly successful brand of modern science to develop in a country that was still under colonial domination The term Bhadrak refers to the then emerging group of native intelligentsia who were identified by academic pursuits and manners Exploring the forms of life of this social group allows a better understanding of the specific character of Indian modernity that as exemplified by the work of bhadrak physicists combined modern science with indigenous knowledge in an original program of scientific research The three scientists achieved the most significant scientific successes in the new revolutionary field of quantum physics with such internationally recognized accomplishments as the Saha ionization equation 1921 the famous Bose Einstein statistics 1924 and the Raman Effect 1928 the latter discovery having led to the first ever Nobel Prize awarded to a scientist from Asia This book analyzes the responses by Indian scientists to the radical concept of the light quantum and their further development of this approach outside the purview of European authorities The outlook of bhadrak physicists is characterized here as cosmopolitan nationalism which allows us to analyze how the group pursued modern science in conjunction with and as an instrument of Indian national liberation **OAR** ,1969 **OAR Progress** , **Accounts and Papers of the House of Commons** Great Britain. Parliament. House of Commons, 1868

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