

Answer all the questions in the spaces provided.

- 1 (a) Distinguish between vector and scalar quantities.

Scalar quantities have magnitude only, however, vector quantities have both magnitude and direction. (2)

- (b) The electric field strength E at a distance x from an isolated point charge Q is given by the equation

$$E = \frac{Q}{x^2 b}$$

where b is a constant.

- (i) Use the definition of electric field strength to show that E has SI base units of $\text{kg m A}^{-1} \text{s}^{-3}$.

$$E = \frac{V}{d} \rightarrow$$

$$E = \frac{V}{Q} \rightarrow \frac{\text{kg m s}^{-2}}{\text{A s}} \rightarrow \text{kg m A}^{-1} \text{s}^{-3}$$

$$R = V$$

$$R = \frac{V}{I}$$

$$I = \frac{Q}{t}$$

(2)

- (ii) Use the units for E given in (b)(i) to determine the SI base units of b .

$$b = \frac{Q}{E x^2} \rightarrow \frac{\text{A s}}{\text{kg m A}^{-1} \text{s}^{-3} \times \text{m}^2}$$

$$\frac{\text{A s}}{\text{kg m}^3 \text{A}^{-1} \text{s}^{-3}} \rightarrow \text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$$

SI base units of b $\text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$ (2)

[Total: 6]

6/6

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Julia Schneider



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Learning to Teach Science in the Secondary School Rob Toplis, Jenny Frost, 2004-07-15 The second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science in the secondary school *Learning to Teach Science in the Secondary School* Jenny Frost, Tony Turner, 2005 The second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science It takes into account changes in science education since the first edition was published including more recent curriculum reform This new edition builds upon the success of its predecessor introducing new material on the use of ICT in science teaching as well as providing sound informative and useful discussion on managing your professional development knowledge concepts and principles of science planning for learning and teaching in science practical teaching strategies selecting and using resources assessment and examinations and the broader science curriculum Midwest *Daily Graphic* Ransford Tetteh, 2014-03-12 **Science Education in East Asia** Myint Swe Khine, 2015-09-03 This book presents innovations in teaching and learning science novel approaches to science curriculum cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education parental roles and involvement in children s education teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study TIMSS and achievement in science mathematics and reading like Programme for International Student Assessment PISA Among the high achieving countries the performance of the students in East Asian countries such as Singapore Taiwan Korea Japan Hong Kong and China Shanghai are notable This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study It brings together prominent science educators and researchers from East Asia to share their experience and findings reflection and vision on emerging trends pedagogical innovations and research informed practices in science education in the region It provides insights into effective educational strategies and development of

science education to international readers Sessional Papers Great Britain. Parliament. House of Commons,1976
Singapore National Bibliography ,1985 *Daily Giving Service* Moira M. W. Chan-Yeung,2022-11-11 In *Daily Giving Service* A History of the Diocesan Girls School Hong Kong Moira M W Chan Yeung and her fellow contributors present a comprehensive history of one of Hong Kong s oldest girls schools As an alumna of the school Chan Yeung traces the history of her alma mater from its establishment in 1860 its development over the last 150 years until the recent decade Having experienced stability and turbulences in Hong Kong in the twentieth century the school has become one of the most prominent girl s schools in the city In several chapters written by other alumni various aspects of school life of different eras are reconstructed and remembered The author and other contributors focused on the postwar era in which Hong Kong grew from a small city to a global metropolitan The expansion of the Diocesan Girls School largely followed this trend The history of the school has also long been connected with the socio economic development of Hong Kong society sharing its happiness and sadness This book is likely to become the gold standard against which all future school histories in Hong Kong are judged Comprehensive insightful and full of fascinating anecdote the inspiring story of DGS is told both chronologically in Moira Chan s main text and thematically in the specialist chapters contributed by her co authors This is a school history that tells us much about the larger story of education in Hong Kong while focusing on a single educational institution Peter Cunich Director Centenary History Project The University of Hong Kong The history of DGS reinforces my observation that Hong Kong schools form an unusual system that combines the best of East and West in the philosophy and practice of education The younger schools in Hong Kong that mushroomed later were basically modelled after schools such as DGS That accounts for the excellence envied by many Cheng Kai ming SBS JP Professor Emeritus The University of Hong Kong The history of DGS reveals how the path taken by the school over the years reflects the very qualities that define a person DGS like our home Hong Kong has witnessed in equal measure challenges disasters and triumphs and has dealt with them with equanimity Dignity respect tolerance courage fairness honesty and of course excellence underpinned by pastoral care represent those essential qualities that have had to be called upon As we now know they have become the minimum tools expected of her students to realise fully their true potential in life and properly contribute to our community This is their story The Honourable Mr Geoffrey Ma Tao li GBM Former Chief Justice of the Court of Final Appeal 2010 2021 **The British National Bibliography** ,1968 Daily Graphic Yaw Boadu-Ayebofoh,2006-03-04 The British National Bibliography Arthur James Wells,1973 *Singapore periodicals index* ,1984 **New Scientist** ,1969 *Host Bibliographic Record for Boundwith Item Barcode 30112033788453 and Others* ,2013 **Examinations in Singapore** Yap Kwang Tan,Hong Kheng Chow,Christine Chuen Meng Goh,2008 The first book to explore the development of Singapore s much talked about education and examination system this volume juxtaposes examinations with its immediate context of education and wider context of politics economy and society The study covers three broad historical periods Examinations in

Singapore from 1891 to 1945 The Post War Years from 1946 to the 1970s and Charting Our Destiny from the 1980s to 2007 In the British period up to 1941 the local examinations were conducted by the vernacular schools and external examinations by the University of Cambridge Local Examinations Syndicate There was a lack of systematic effort to establish a uniform system of education and examinations During the Japanese Occupation examinations were conducted by the Japanese authorities and unexpectedly the Cambridge examinations continued in the Sime Road Camp In the post war period and particularly after Singapore was granted self government the establishment of a national education system was followed by the emergence of national examinations the Primary School Leaving Examinations and the Singapore Cambridge GCE N O A Levels for every school going child in Singapore Thereafter the nature of national examinations evolved with the changing needs of education and the nation At the turn of the century with the Ministry of Education s decision to take greater control of examinations the Singapore Examinations and Assessment Board was established to oversee new developments in examinations Unlike most literature on education where examinations are often mentioned as an outcome of educational goals and objectives this book focuses on examinations per se Examinations have gained a momentum of their own and it is interesting to note the development of examinations against the backdrop of the broader history of Singapore and of education in Singapore *Parliamentary Papers* Great Britain. Parliament. House of Commons,1976 Papers by Command, Cmnd ,1963

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