

HSC Maharashtra Board question paper: March 2013

Note:

- All question are compulsory
- Neat diagrams must be drawn wherever necessary.
- Figure to the right indicate full marks.
- Use of logarithmic table is allowed.
- All symbols have their usual meaning unless otherwise stated.

PHYSICS: SECTION – I

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question: [7]

- The moment of inertia of a thin uniform rod of mass M and length L , about an axis passing through a point, midway between the centre and one end, perpendicular to its length is _____.
(A) $\frac{48}{7} ML^2$ (B) $\frac{7}{48} ML^2$ (C) $\frac{1}{48} ML^2$ (D) $\frac{1}{16} ML^2$
- 'n' droplets of equal size of radius r coalesce to form a bigger drop of radius R . The energy liberated is equal to _____. (T = Surface tension of water)
(A) $4\pi R^2 T [n^{\frac{1}{3}} - 1]$ (B) $4\pi r^2 T [n^{\frac{1}{3}} - 1]$
(C) $4\pi R^2 T [n^{\frac{2}{3}} - 1]$ (D) $4\pi r^2 T [n^{\frac{2}{3}} - 1]$
- The buckling of a beam is found to be more if _____.
(A) the breadth of the beam is large.
(B) the beam material has large value of Young's modulus.
(C) the length of the beam is small.
(D) the depth of the beam is small.
- When a transverse wave on a string is reflected from the free end, the phase change produced is _____.
(A) zero rad (B) $\frac{\pi}{2}$ rad (C) $\frac{3\pi}{4}$ rad (D) π rad
- The number of degrees of freedom for a rigid diatomic molecule is _____.
(A) 3 (B) 5 (C) 6 (D) 7
- Two particles perform linear simple harmonic motion along the same path of length $2A$ and period T as shown in the graph below. The phase difference between them is _____.



- (A) zero rad (B) $\frac{\pi}{4}$ rad (C) $\frac{\pi}{2}$ rad (D) $\frac{3\pi}{4}$ rad

Hsc Sample Question Papers 2013

Hong Hao, Chunwei Zhang



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Cambridge Checkpoints HSC Advanced English 2017 Melpomene Dixon,Kate Murphy,Amy Hughes,2016-06-28

Cambridge Checkpoints HSC Chemistry 2017-19 Maureen Slade,Roger Slade,2016-06-29 The Routledge Handbook of English Language Education in Bangladesh Shaila Sultana,M. Moninoor Roshid,Md. Zulfeqar Haider,Mian Md. Naushaad Kabir,Mahmud Hasan Khan,2020-12-17 This Handbook is a comprehensive overview of English language education in Bangladesh Presenting descriptive theoretical and empirical chapters as well as case studies this Handbook on the one hand provides a comprehensive view of the English language teaching and learning scenario in Bangladesh and on the other hand comes up with suggestions for possible decolonisation and de eliticisation of English in Bangladesh The Handbook explores a wide range of diverse endogenous and exogenous topics all related to English language teaching and learning in Bangladesh and acquaints readers with different perspectives operating from the macro to the micro levels The theoretical frameworks used are drawn from applied linguistics education sociology political science critical geography cultural studies psychology and economics The chapters examine how much generalisability the theories have for the context of Bangladesh and how the empirical data can be interpreted through different theoretical lenses There are six sections in the Handbook covering different dynamics of English language education practices in Bangladesh from history policy and practice to assessment pedagogy and identity It is an invaluable reference source for students researchers and policy makers interested in English language ELT TESOL and applied linguistics National Student Assessment 2013 for Grades 3 and 5 ,2013

Cambridge Preliminary Mathematics General Greg Powers,2012-12-21 Cambridge preliminary mathematics general second edition has been completely revised for the stage 6 mathematics general syllabus implement from 2013 to prepare you for the HSC general 1 or general 2 course Mechanics of Structures and Materials XXIV Hong Hao,Chunwei Zhang,2019-08-08 Mechanics of Structures and Materials Advancements and Challenges is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage

mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science Light Sensitive Learners Wendy Johnson,2024-04-08 This book explains why Australian governments are doing nothing for marginalised light sensitive learners Government inaction is explored via policymaking theories and contrasted with a case study of active policymaking in a NSW high school which resulted in improved academic results This book exposes inequity and provides a warrant for action A must read for policy scholars who want to detect and understand policy inaction educators who want to support Light Sensitive Learners lighting designers who want to reduce the negative impacts of artificial lighting lawyers who want to understand the original intent and importance of the clause learning differently in the Disability Discrimination Act parents who want to know who s to blame

Green Infrastructure Rohana Hassan,Nor Hayati Abdul Hamid,Ahmad Kamil Arshad,Anizahyati Alisibramulisi,Muhd Norhasri Muhd Sidek,Norshariza Mohamad Bhkari,Ekarizan Shaffie,2021-12-05 This book presents the meaning of green infrastructure and its concerns to the contribution of materials and applications It explores the evolving contested material under green infrastructure covering timber concrete soil and pavement It discusses the resistance to the ambiguity of managing the construction of green infrastructure and drawing on wider debates around applications and processes on construction These contributions are by no means definitive but rather an attempt to provide a detached and holistic perspective on the engineering green infrastructure concept **Dynamics in Education and Practice** Dr. Gaturu Mary Wangechi HSC, Millah Christopher, Muthusi Francis Mutisya, Nyamizi, G. Lillian, Jane Macharia,2022-08-18 TOPICS IN THE BOOK Career Plateauing and Its Relationship with Secondary School Teachers Pursuit of Post Graduate Studies in Nyandarua and Murang a Counties Kenya An Empirical Investigation into the Drivers of Secondary School Funding Disparities and their Effects on School Performance Evidence from Selected Public Secondary General Education Schools in the North West Region of Cameroon An Assessment of the Influence of Mathematics Teachers Training on Use of Questioning Technique and Students Achievement in Mathematics in Public Secondary Schools in Mwala Sub County Machakos County Kenya Towards O Level Students Performance in Mathematics Do Teaching and Learning Environment Factors Matter The Influence of Male Adolescent Age on Parental Demandingness Rebellious Behaviour and Academic Performance in Public Secondary Schools **Public Health Nursing - E-Book** Marcia Stanhope,Jeanette Lancaster,2015-09-16 Prepare for a successful career as a community public health nurse Public Health Nursing Population Centered Health Care in the Community 9th Edition provides up to date information on issues that impact public health nursing such as infectious diseases natural and man made disasters and health care policies affecting individuals families and communities Real life scenarios show examples of health promotion and public health interventions New to this edition is an emphasis on QSEN

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A Holistic Home-School-Community Model for Learning Chinese Language Tse Shek Kam, Laing Victor, 2021-09-28 This book contains the compilation of studies from a 5 year project aimed at improving the Chinese teaching and learning as a second language for non Chinese speaking preschoolers in Hong Kong In this project a home school community model was used in an attempt to address the teaching and learning of Chinese for non Chinese speaking preschoolers moving from a traditional school centred teaching approach to a holistic approach This allows them to learn in the same space and environment on the same topics creating an inclusive classroom that does not compromise the teaching and learning of Chinese for both local and non Chinese speaking preschoolers Issues such as medium of instruction language progression silent period multicultural teaching assistants multilingual learning facilitators parent changes and effective teaching are studied and discussed

Reforming Literature Education in Malaysia 1957 - 2020 Jia Wei

Lim, 2024-08-12 Lim traces the complexities in construction and implementation of a school subject namely Literature in English in Malaysia through a focused and grounded narrative where tensions regarding identity reader response and conceptualisations about literature play out in a postcolonial context The book demonstrates the need to think about school subjects as abstract concepts negotiated at various levels be it during curriculum construction or in the classroom These conceptualisations of the subject are further influenced by contemporary concerns and sociopolitical changes over time As such the scope of this book ranges from pre independence Malaysia then Malaya from the 1950s till the current phase of the subject s development in the 21st century The volume illustrates the complex interplay of historical cultural and social

influences on the conceptualisation of English literature as a school subject in Malaysia Lim traces examines and interprets its development as an elective subject in the context of post secondary Malaysian education and engages with current trends in education such as internationalization and standardized assessment Lim also highlights the importance of teacher and student lived experiences to argue that personal conceptualisations of the school subject are actualized and negotiated in classroom discourse Offering unique insights into studying Literature in English in a postcolonial context the book will appeal to researchers students and practitioners in the fields of history of education curriculum reform and literature education

Computational Modelling of Concrete Structures Nenad Bicanic, Herbert Mang, Gunther Meschke, René de Borst, 2014-03-04 The EURO C conference series Split 1984 Zell am See 1990 Innsbruck 1994 Badgastein 1998 St Johann im Pongau 2003 Mayrhofen 2006 Schladming 2010 St Anton am Alberg 2014 brings together researchers and practising engineers concerned with theoretical algorithmic and validation aspects associated with computational simulations of concrete and *Public Health Nursing* Marcia Stanhope, PhD, RN, FAAN, Jeanette Lancaster, PhD, RN, FAAN, 2015-10-07 Prepare for a successful career as a community public health nurse Public Health Nursing Population Centered Health Care in the Community 9th Edition provides up to date information on issues that impact public health nursing such as infectious diseases natural and man made disasters and health care policies affecting individuals families and communities Real life scenarios show examples of health promotion and public health interventions New to this edition is an emphasis on QSEN skills and an explanation of the influence of the Affordable Care Act on public health Written by well known nursing educators Marcia Stanhope and Jeanette Lancaster this comprehensive bestselling text is ideal for students in both BSN and Advanced Practice Nursing programs Evidence Based Practice and Cutting Edge boxes illustrate the use and application of the latest research findings in public community health nursing Healthy People 2020 boxes highlight goals and objectives for promoting the nation s health and wellness over the next decade Levels of Prevention boxes identify specific nursing interventions at the primary secondary and tertiary levels Practice Application scenarios help you apply chapter content to the practice setting by analyzing case situations and answering critical thinking questions Linking Content to Practice boxes provide examples of the nurse s role in caring for individuals families and populations in community health settings Unique Separate chapters on healthy cities the Minnesota Intervention Wheel and nursing centers describe different approaches to community health initiatives Community Public Health Nursing Online consists of 14 modules that bring community health situations to life each including a reading assignment case scenarios with learning activities an assessment quiz and critical thinking questions Sold separately NEW Coverage of health care reform discusses the impact of The Patient Protection and Affordable Care Act of 2010 ACA on public health nursing NEW Focus on Quality and Safety Education for Nurses boxes give examples of how quality and safety goals knowledge competencies and skills and attitudes can be applied to nursing practice in the community Poetry Remastered Blair Mahoney, 2013-01-02 From the author of Poetry Reloaded comes a text for

senior students that will enhance their appreciation and understanding of poetry while preparing them to master English exams and other assessment tasks Through close readings of a wide variety of poems Poetry Remastered offers new ways for students to investigate poetry through the key areas of imagery sound devices form and structure mood and theme and historical and authorial context uncover the different meanings embedded in poems by exploring them through a variety of critical reading frameworks develop sophisticated ways of comparing and contrasting poetic styles by looking closely at the structure and features specific to this literary form understand what teachers and examiners are looking for in a written response by providing annotated sample essays as models for their own writing develop and justify their own interpretations and evaluations of poetry by refining key essay writing skills

In the Event of Women Tani Barlow, 2021-09-20 In the Event of Women outlines the stakes of what Tani Barlow calls the event of women Focusing on the era of the late nineteenth century through the mid twentieth century s Cultural Revolution Barlow shows that an event is a politically inspired action to install a newly discovered truth in this case the mammal origins of human social evolution Highbrow and lowbrow social theory circulating in Chinese urban print media placed humanity s origin story in relation to commercial capital s modern advertising industry and the conclusion that women s liberation involved selling buying and advertising industrial commodities The political struggle over how the truth of women in China would be performed and understood Barlow shows means in part that an event of women was likely global because its truth is vested in biology and physiology In so doing she reveals the ways in which historical universals are effected in places where truth claims are not usually sought This book reconsiders Alain Badiou s concept of the event particularly the question of whose political moment marks newly discovered truths

Proceedings of Third International Conference on Sustainable Computing Ramesh Chandra Poonia, Vijander Singh, Dharm Singh Jat, Mario José Diván, Mohammed S. Khan, 2022-01-04 The book includes a selection of the best papers presented at the Third International Conference on Sustainable Computing SUSCOM 2021 held in Jaipur India during 19-20 March 2021 It covers topics like Internet of things IoT artificial system of security smart storage and knowledge retrieval using data cloud intelligent transport management intelligent cognitive and bio inspired computing and management science The book is useful for peoples from academia government bodies healthcare and industry to discuss their future scope

Ultra-High Performance Concrete and High Performance Construction Materials Ekkehard Fehling, Bernhard Middendorf, Jenny Thiemicke, 2016-03-01

Unveiling the Magic of Words: A Report on "**Hsc Sample Question Papers 2013**"

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restoring spanish grandeur after the civil war in reality he was the leader of an exhausted country still divided internally and
impoverished by a long and costly war

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yönetmiştir lakabı el

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death in 1975 spain transitioned into a democracy during this time period spain was officially known

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