

# 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)  $\pi$  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 All Exam Paper 2013

**Kate Rayner, Kelly Bell**



## **Hsc All Exam Paper 2013:**

**Cambridge Checkpoints HSC Standard English 2017** Mel Dixon, Kate Murphy, Amy Hughes, 2016-06-28

**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      **Cambridge Checkpoints**

**HSC Community and Family Studies 2017-19** Kate Rayner, Kelly Bell, 2016-06-28 HSC Community and Family Studies

Checkpoints includes revision summaries for all Cores including two Groups in Context Category B groups and most options sample examination questions sample answers and annotated samples from last years HSC examination      Recent Advances in Cardiotoxicity Testing Tamer M. A. Mohamed, Javid Moslehi, Jonathan Satin, 2022-01-05      **The Routledge Handbook of**

**English Language Education in Bangladesh** Shaila Sultana, M. Moninoor Roshid, Md. Zulfear 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      **The Cognitive, Emotional and Neural Correlates**

**of Creativity** Matthijs Baas, Carsten K. W. De Dreu, Bernard A. Nijstad, 2015-08-06 Across species humans have an unsurpassed capacity for creative thought and innovation Human creativity is at the roots of extraordinary achievements in the arts and sciences and enables individuals and their groups to adapt flexibly to changing circumstances to manage complex social relations and to survive and prosper through social technological and medical innovations The ability to generate novel and potentially useful ideas and problem solutions viz creativity is a key driver of human evolution and among the most valued and sought after competencies in contemporary societies that struggle with complex problems and compete for technological and economic supremacy Because creativity provides fitness functionality in both ancestral and contemporary societies it stands to reason that i the human brain evolved to sustain and promote creative thinking and we should be able to identify ii the brain circuitries genetic drivers and neurohormonal modulators of the human capacity for

creative problem solving and original ideation and iii the core cognitive and emotional processes underlying creative thought In this Research Topic we bring together a collection of papers to provide an encyclopedic open access snapshot of the current state of the art on the neural cognitive and emotional correlates of creativity **The Routledge Companion to Vsevolod Meyerhold** Jonathan Pitches, Stefan Aquilina, 2022-11-09 The Routledge Companion to Vsevolod Meyerhold brings together a wealth of scholarship on one of the foremost innovators in European theatre It presents a detailed picture of the Russian director's work from when it first emerged on the modern stage to its multifarious present day manifestations By combining an historical focus with the latest contemporary research from an international range of perspectives and authors this collection marks an important moment in Meyerhold studies as well as offering a new assessment of his relation to today's theatre making Its dynamic blend of research is presented in five sections Histories enlarges on more conventional subjects like the grotesque and Biomechanics to overlooked topics such as Meyerhold's failed projects and his work in film

Collaborations and Connections extends understandings of Meyerhold's well known collaborative capacities to consider new cultural influences and lesser known working relationships Sources engages with hitherto untapped material in Meyerhold's oeuvre by reproducing and contextualising previously untranslated primary sources on his work Practitioner Voices offer lively on the ground testimony of the contemporary impact of Meyerhold's practice Meyerhold in New Contexts maps the routes of his practice across continents and examines ways in which his work is being applied in a number of contemporary scenarios such as motion capture computer based 3D visualisations and the new normal of digital pedagogy This is a key resource for students and scholars of European Theatre acting theory and actor training as well as for those more broadly interested in the socio political impact of theatre HSMV 2023 E. Begovic, 2023-11-09 A growing awareness for sustainable mobility and the importance of reducing greenhouse gas emissions call for immediate action in the maritime industry Technical improvements such as the hydrodynamic optimization innovations in energy saving devices new propulsion systems and power supplies can contribute to such achievements This challenge is even more demanding for high speed marine craft This book presents the proceedings of HSMV2023 the 13th International Symposium on High Speed Marine Vehicles held from 23 to 25 October 2023 in Naples Italy The conference attracts academics researchers designers operators and shipowners It provides a platform for the presentation and discussion of developments in the design construction and operation of high speed marine vessels More than 40 submissions were received 27 papers were selected for presentation and publication in this book after a rigorous review process The book provides an overview of current innovations and developments and can be a reference for all those working in the field of high speed marine vehicles

*National Student Assessment 2013 for Grades 3 and 5*, 2013 **Stem Cell Aging: Mechanisms, Consequences, Rejuvenation** Hartmut Geiger, Heinrich Jasper, Maria Carolina Florian, 2015-07-06 Aging of somatic stem cells reduces cell function and results in dysfunctional organs and tissues making it an underlying cause of diseases associated with aging It

might even be the primary cause for age associated attrition of tissue function in organs that heavily rely on stem cells for maintaining homeostasis like the skin blood and intestines Understanding the molecular and cellular mechanisms involved is critical for developing approaches to attenuate stem cell aging and could pave the way for improved quality of life among the elderly Written by highly prominent experts in the field this book presents the current state of knowledge on these mechanisms It offers insights into stem cell function explains in detail the mechanisms of stem cell aging in model organisms as well as mammalian systems and describes related diseases and approaches to attenuating stem cell aging or achieving rejuvenation The book is intended for all scientists and clinicians working with stem cells aging mechanisms or age related diseases

**Fibrosis in the Respiratory and Digestive Systems** Jian Gao,Yang Zhou,Jing Qu,Hong-Long Ji,2022-05-23

Industrial Engineering in the Big Data Era Fethi Calisir,Emre Cevikcan,Hatice Camgoz Akdag,2019-01-23 This book gathers extended versions of the best papers presented at the Global Joint Conference on Industrial Engineering and Its Application Areas GJCIE held in Nevsehir Turkey on June 21 22 2018 They reports on industrial engineering methods and applications with a special focus on the advantages and challenges posed by Big data in this field The book covers a wide range of topics including decision making optimization supply chain management and quality control

*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 ACM24 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

*Advances in Intravital Microscopy* Roberto Weigert,2014-11-12 This is the first book entirely dedicated to Intravital Microscopy It provides the reader with a broad overview of the main applications of Intravital Microscopy in various areas of the biomedical field The book contains accurate descriptions of the state of the art methodologies used to image various organs at different level of resolution ranging from whole tissue down to sub cellular structures Moreover it is an extremely valuable guide to scientists that want to adopt this powerful technique and do not have experience with animal models and microscopy

**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

#### **Reading Marx in the Information Age** Christian

Fuchs,2015-10-23 Renowned Marxist scholar and critical media theorist Christian Fuchs provides a thorough chapter by chapter introduction to Capital Volume 1 that assists readers in making sense of Karl Marx s most important and groundbreaking work in the information age exploring Marx s key concepts through the lens of media and communication studies via contemporary phenomena like the Internet digital labour social media the media industries and digital class struggles Through a range of international current day examples Fuchs emphasises the continued importance of Marx and his work in a time when transnational media companies like Amazon Google and Facebook play an increasingly important role in global capitalism Discussion questions and exercises at the end of each chapter help readers to further apply Marx s work to a modern day context

#### Progress in the Analysis and Design of Marine Structures Carlos Guedes Soares,Y.

Garbatov,2017-04-28 Progress in the Analysis and Design of Marine Structures collects the contributions presented at MARSTRUCT 2017 the 6th International Conference on Marine Structures Lisbon Portugal 8 10 May 2017 The MARSTRUCT series of Conferences started in Glasgow UK in 2007 the second event of the series having taken place in Lisbon Portugal in March 2009 the third in Hamburg Germany in March 2011 the fourth in Espoo Finland in March 2013 and the fifth in Southampton UK in March 2015 This Conference series deals with Ship and Offshore Structures addressing topics in the areas of Methods and Tools for Loads and Load Effects Methods and Tools for Strength Assessment Experimental Analysis of Structures Materials and Fabrication of Structures Methods and Tools for Structural Design and Optimisation and Structural Reliability Safety and Environmental Protection Progress in the Analysis and Design of Marine Structures is essential reading for academics engineers and all professionals involved in the design of marine and offshore structures

#### **Translational**

**Approaches to Autism Spectrum Disorder** Maria de los Angeles Robinson-Agramonte, 2015-06-10 This book addresses and synthesizes recent basic translational and clinical research with the goal of understanding the mechanisms behind autism spectrum disorder ASD and how they lead to altered brain function and behavior Bringing clarity to these mechanisms will lead to more effective therapies for the various heterogeneous pathologies that comprise ASD Currently there are few if any proven therapies for the majority of the disorders Among the topics addressed are neural plasticity neuroimmunology neuroinflammation neuroimaging and appropriate animal and genetic models      **Recent Advancements in Microbial Diversity** Jae Youl Cho, 2022-03-18 In recent years researchers around the globe have deep dived into the fascinating world of the Macrophage and its diverse role in tissue development angiogenesis and wound healing and above all the untapped mystery of the wondering immune system within our body Macrophages and their role in inflammation includes all the latest information of macrophages and inflammation as well as it provides an in depth understanding of this complex and rapidly progressing field of study Outlines the role of macrophages in inflammation Contains chapters by leading authors on the basic and translational aspects of macrophage biology Deals with internal and external treatments

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## **Table of Contents Hsc All Exam Paper 2013**

1. Understanding the eBook Hsc All Exam Paper 2013
  - The Rise of Digital Reading Hsc All Exam Paper 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Hsc All Exam Paper 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hsc All Exam Paper 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc All Exam Paper 2013
  - Personalized Recommendations
  - Hsc All Exam Paper 2013 User Reviews and Ratings
  - Hsc All Exam Paper 2013 and Bestseller Lists



5. Accessing Hsc All Exam Paper 2013 Free and Paid eBooks
  - Hsc All Exam Paper 2013 Public Domain eBooks
  - Hsc All Exam Paper 2013 eBook Subscription Services
  - Hsc All Exam Paper 2013 Budget-Friendly Options
6. Navigating Hsc All Exam Paper 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Hsc All Exam Paper 2013 Compatibility with Devices
  - Hsc All Exam Paper 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc All Exam Paper 2013
  - Highlighting and Note-Taking Hsc All Exam Paper 2013
  - Interactive Elements Hsc All Exam Paper 2013
8. Staying Engaged with Hsc All Exam Paper 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc All Exam Paper 2013
9. Balancing eBooks and Physical Books Hsc All Exam Paper 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc All Exam Paper 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hsc All Exam Paper 2013
  - Setting Reading Goals Hsc All Exam Paper 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc All Exam Paper 2013
  - Fact-Checking eBook Content of Hsc All Exam Paper 2013
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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neon ne fakta sifat kegunaan efek kesehatannya - Oct 21 2022

web neon adalah gas mulia teringan kedua setelah helium gas ini berwarna oranye kemerahan saat dimasukkan dalam tabung vakum dan dalam lampu neon kapasitas pendingin neon 40 kali lebih besar dari helium cair dan 3 kali hidrogen cair per unit volume

**kegunaan dan dampak unsur senyawa bagi manusia dan lingkungan** - May 28 2023

web jan 3 2014 sebagai bahan pewarna putih pada cat zno dampak unsur senyawa bagi manusia dan lingkungan 1 dampak gas mulia unsur gas mulia misalnya radon radon merupakan sumber radiasi alam yang menimbulkan efek negatif karena sifat gas radon sebagai salah satu penyebab munculnya kanker paru paru 2 dampak

**sifat unsur dan senyawa periode 3 dari natrium hingga argon** - Jan 12 2022

web oct 4 2022 dari tabel dapat disimpulkan bahwa unsur na mg dan al dapat mencapai kestabilannya dengan melepaskan elektron unsur p s cl mencapai kestabilan dengan menerima elektron unsur si bersifat semi logam dan unsur ar termasuk unsur gas mulia

mengenal macam macam sifat dan unsur gas mulia kimia - Nov 21 2022

web oct 7 2021 sifat kimia unsur unsur gas mulia memiliki konfigurasi elektron yang stabil karena semua elektron pada kulit terluarnya sudah berpasangan penuh hal ini menyebabkan gas mulia cenderung sulit bereaksi dengan unsur lainnya

**doc makalah gas mulia ahmadi otok academia edu** - Apr 14 2022

web gas gas ini pun sangat sedikit kandungannya di bumi dalam udara kering maka akan ditemukan kandungan gas mulia sebagai berikut helium 0 00052 neon 0 00182 argon 0 934 kripton 0 00011 xenon 0 000008 radon radioaktif a unsur unsur dalam gas mulia 1

**pengertian gas mulia sifat dan kegunaannya ilmu kimia** - Jun 28 2023

web gas mulia terdapat dalam grup viiia pada tabel periodik atau pada kolom paling kanan dimana dalam satu golongan tersebut berisi unsur unsur yang dinamakan gas mulia unsur unsur tersebut adalah helium he neon ne argon ar krypton kr xenon xe radon rn dan oganesson og

*15 manfaat gas mulia dalam kehidupan manfaat co id* - Apr 26 2023

web selain memiliki banyak manfaat gas mulia juga dapat menimbulkan dampak negatif bagi kehidupan manusia di bidang kesehatan berikut ini beberapa dampak negatif yang di timbulkan dari gas mulia yaitu sistem pernafasan di bidang kesehatan

salah satu dampak negatif yang timbul adalah sistem pernafasan yang akut yang menyerang

**ppt kimia gas mulia ppt slideshare** - Jul 18 2022

web pengertian gas mulia gas mulia adalah unsur unsur golongan viiia 18 dalam tabel periodik disebut mulia karena unsur ini sangat stabil menurut lewis kestabilan gas mulia tersebut disebabkan konfigurasi elektronnya yang terisi penuh  
*gas mulia unsur sifat gas mulia kegunaan contoh soal* - Dec 23 2022

web sifat fisis unsur unsur gas mulia memiliki titik leleh dan titik didih yang sangat rendah titik didihnya hanya beberapa derajat celcius di atas titik lelehnya titik leleh dan titik didih dari he ke rn bertambah sebagaimana kekuatan gaya london gaya dispersi bertambah seiring dengan bertambahnya massa atom dan jari jari atom

*gas mulia pengertian sifat kegunaan pembuatan konfigurasi* - Sep 19 2022

web jul 13 2023 gas mulia ditemukan di dekat golongan halogen dalam tabel periodik karena unsur gas mulia memiliki konfigurasi elektron yang penuh unsur unsur tersebut tidak reaktif dan senyawanya tidak dikenal akibatnya gas gas ini dikenal dengan gas inert

*gas mulia yang sukar bereaksi dan sifat sifat unsur gas mulia* - Jan 24 2023

web may 7 2016 unsur unsur gas mulia dalam sistem periodik menempati golongan viii a yang terdiri dari unsur helium he neon ne argon ar krypton kr xenon xe dan dampak negatif keberadaannya di alam 3 argon argon adalah unsur terbanyak pertama di udara bebas udara kering dan ketiga paling melimpah di alam semesta argon

**dampak negatif pemanfaatan gas mulia sumber makalah** - Feb 10 2022

web dampak negatif pemanfaatan gas mulia iklan1 bab 1 pendahuluan 1 1 latar belakang nuklir merupakan energi yang sangat besar dan acapkali digunakan dalam pembangkit listrik nuklir juga menjadi salah satu energi cadangan lau bahan bakar posil telah habis nuklir juga acapkali digunakan d

*modul kimia kelas xii kd 3 kemdikbud* - Mar 14 2022

web tentang kelimpahan dan sifat sifat golongan gas mulia halogen alkali dan alkali tanah a kelimpahan gas mulia unsur unsur gas mulia dalam sistem periodik terletak pada golongan viiia yang meliputi helium he neon ne argon ar krypton kr xenon xe dan radon rn

argon ar fakta sifat kegunaan efek kesehatannya - Mar 26 2023

web argon adalah gas mulia ketiga dan berkontribusi pada sekitar 1 atmosfer bumi argon memiliki kelarutan mirip oksigen dan sekitar 2 5 kali lebih mudah larut dalam air dari nitrogen unsur kimia inert ini tidak berwarna dan

kegunaan dan dampak gas mulia a 123dok - Aug 31 2023

web dampak negatif keberadaannya di alam c argon kegunaan pengisi bola lampu karena argon tidak bereaksi dengan filamen walaupun pada temperatur tinggi argon digunakan dalam las titanium pada pembuatan pesawat terbang atau roket

pengisi tabung pemadam kebakaran dampak negatif tidak dapat membentuk campuran kimia sejati 2 jumlah ya

**kegunaan dan dampak gas mulia pdf scribd** - Jul 30 2023

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