

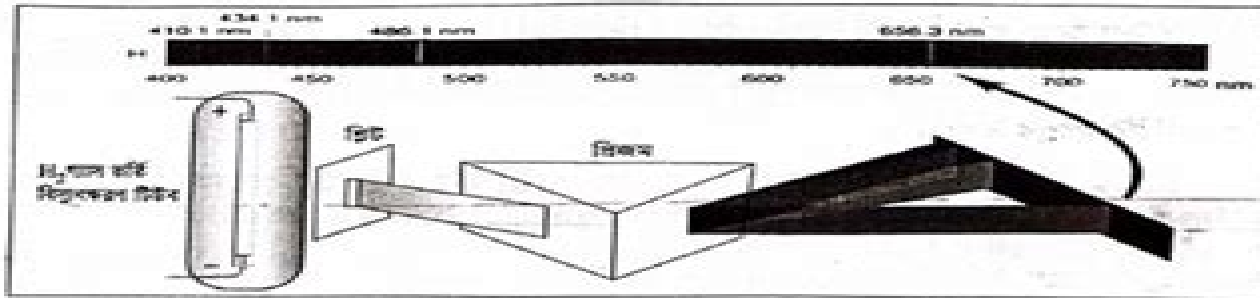
ভূমিকার আলোচনা = ২২  
প্রশ্ন কর্মকাণ্ড = ১০  
মোট পিরিয়ড = ৩২

## দ্বিতীয় অধ্যায় গুণগত রসায়ন Qualitative Chemistry

### ভূমিকা (Introduction)

এ বিশ্ব প্রকৃতি বিজ্ঞানীদের কাছে দু'ভাবে বিভক্ত, যেমন পদার্থ (matter) ও বিকীর্ণ শক্তি (radiant energy)। সব পদার্থের গঠনে রয়েছে বিভিন্ন প্রকারের মৌলের পরমাণু। পরমাণুর গঠনে রয়েছে কিছু মূল কণিকা। এ সব কণিকার আবিষ্কার, শনাক্তকরণ ও পরমাণুতে এদের বিন্যাস প্রকরণ সম্বন্ধে পরীক্ষা-নিরীক্ষাক্রম তথ্যের যুক্তিনির্ভর উপস্থাপন গুণগত রসায়নের অন্তর্ভুক্ত। পরমাণুর সাথে রয়েছে বিকীর্ণ শক্তির সম্পর্ক। আবার সব প্রকার বিকীর্ণ শক্তি হলো তড়িৎ চুম্বকীয় বিকিরণ রশ্মি, যার প্রধান উৎস হলো সূর্যের আলো। আলোক শক্তি-তরঙ্গ নিজে অদৃশ্য; কিন্তু যে আলোক-অংশ অন্য বস্তুকে দৃশ্যমান করে তাকে দৃশ্যমান আলো বলে। এছাড়াও অনেক অদৃশ্য আলো আছে; যেমন IR রশ্মি, UV রশ্মি, রেডিও-টেলিভিশন তরঙ্গ। এ সব তরঙ্গ রশ্মি আমরা বিভিন্নভাবে ব্যবহার করি। অনুগ্রহভাবে, বিভিন্ন পরমাণু তাপশক্তি দ্বারা উত্তীর্ণিত হয়ে বিভিন্ন প্রকার বর্ণালি সৃষ্টি করে, যা থেকে ঐ সব মৌলের শনাক্তকরণ সম্ভব হয়। অজৈব আয়নিক যৌগের মূলত শনাক্তকরণ ও সমযোজী জৈব যৌগের মিশ্রণ থেকে উপাদান যৌগ পৃথকীকরণ, বিশেষণে প্রকৃতি রাসায়নিক ও ভৌত-প্রক্রিয়া গুণগত রসায়নের অন্তর্ভুক্ত।

অধ্যায়ের প্রধান শব্দসমূহ (Key Words): আলফা কণা, তড়িৎ চুম্বকীয় বিকিরণ, ফ্রিকুয়েন্সি ও হার্টজ (Hz), ফোটন, প্রাকের সমীকরণ, রেখা বর্ণালি, জিমন্যান প্রভাব, বামার-রিডবার্গ সমীকরণ, কোয়ান্টাম সংখ্যা, অরবিটাল, নোড (node), পাউলির বর্জন নীতি, আউফবাউ নীতি, হুডের নীতি, IR রশ্মি, Laser রশ্মি, UV রশ্মি, UV-Fluorescent ink, MRI পরীক্ষা, Flame Test, দ্রাব্যতা ও দ্রাব্যতার গুণফল, সম-আয়ন প্রভাব, কেলসন, উর্ধ্বপাতন, পাতন, দ্রাবক নিষ্কাশন, জেনোটেম্যাফিক।



শিখনফল : এ অধ্যায় পাঠ শেষে শিক্ষার্থীরা—

১. পরমাণুর রাদারফোর্ড মডেল ও বোর মডেলের তুলনা করতে পারবে।
২. কোয়ান্টাম সংখ্যাভিত্তিক বিভিন্ন উপস্তর ও ইলেকট্রন ধারণ ক্ষমতা ব্যাখ্যা করতে পারবে।
৩. কোয়ান্টাম উপস্তরের শক্তিক্রম ও আকৃতি বর্ণনা করতে পারবে।
৪. আউফবাউ, হুড ও পাউলির বর্জন নীতি প্রয়োগ করে পরমাণুর ইলেকট্রন বিন্যাস করতে পারবে।
৫. তড়িৎ চুম্বকীয় বর্ণালি ব্যাখ্যা করতে পারবে।
৬. রেখা বর্ণালি দেখে বিভিন্ন মৌল শনাক্ত করতে পারবে।
৭. বোর পরমাণু মডেল অনুসারে H-পরমাণুর বর্ণালির ব্যাখ্যা করতে পারবে।

# Hsc Chemistry 2nd Paper 2014

**Jim Stamell**



## **Hsc Chemistry 2nd Paper 2014:**

Excel HSC Chemistry C. M. Roebuck, 2003      Excel HSC Chemistry Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand Second hand and Investigations and Problem Solving %this way you will be able to see at a glance what the theoretical and practical work is all main headings in each chapter 1 1 2 1 etc are directly from the syllabus word for word %this way you can easily match the Excel guide to the syllabus an alphabetical list of all the key definitions and concepts you should know from each chapter %an efficient way of learning all the definitions in one go chapter syllabus checklist with every single dot point listed in checklist form for each chapter %a fantastic way of testing that you know all the work hundreds of key concept questions with answers %questions that test you recall of knowledge in each chapter HSC type questions for every section in each chapter with clock icons to tell you how much time you will have to answer the questions in the HSC %this way you can test yourself on HSC type questions under HSC type time pressure an examiner maximiser feature ticks to show the mark distribution and answers to all HSC type questions %all you need to answer HSC type questions two sample HSC papers with an examiner maximiser feature plus answers %not one but two up to date sample papers the Excel syllabus summary notes a detachable section at the end of the guide where every single dot point of each chapter is summarised for you% a comprehensive and compact summary of the whole course in 32 pages      *Excel Revise in a Month HSC Chemistry* Will Marchmont, 2007      *Cambridge Checkpoints HSC Chemistry 2017-19* Maureen Slade, Roger Slade, 2016-06-29      **High Temperature Experimental Techniques and Measurements 2** Torsten Markus, Rob Walker, Greg Jackson, 2015      **Excel HSC Business Studies** Louise Fleming, 2004 Contains a comprehensive summary of the entire course activities glossary of terms comprehensive coverage of the course and a list of websites      **Australian national bibliography**, 1961      **From Armstrong to Nuffield** Edgar William Jenkins, 1979      Materials Processing Fundamentals 2018 Guillaume Lambotte, Jonghyun Lee, Antoine Allanore, Samuel Wagstaff, 2018-01-09 This book includes contributions from the Materials Processing Fundamentals Symposium held at the TMS 2018 Annual Meeting Exhibition in Phoenix Arizona Covering the physical and numerical modeling of materials processing the volume covers a range of metals and minerals Authors present models and results related the basics of processing such as extraction joining separation and casting The corresponding

fundamentals of mass and heat transport as well as physical and thermodynamics properties are addressed allowing for a cross disciplinary vision of the field      **Gmelin Handbook of Inorganic Chemistry** Adolf Slawisch, 1989      Indian Journal of Chemistry ,1989      **Yearbook of International Organizations 2014-2015 (Volume 2)** Union Of International Associations, Union of International Associations, 2014-07-16 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located      Proceedings of the 4th International Gas Processing Symposium ,2015-06-15 Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries This trend is driven by environmental economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock Despite the recent global economic uncertainty the oil and gas industry is expected to continue its growth globally especially in emerging economies The expansion in LNG capacity coupled with recently launched and on stream GTL plants poses real technological and environmental challenges These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization sustainability and excellence in gas processing Provides state of the art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry      **H.S.C Sample Papers Science Stream for 2022 Exam (Maharashtra Board) : New Pattern Questions - Hindi, Eng, Marathi, Maths & Stats, Physics, Chem, Bio** Oswal - Gurukul, 2021-08-25 H S C SAMPLE PAPERS Maharashtra Board for 2022 Exam Science Stream Handbook of 8 Subjects Activity Sheet Question Papers on New Pattern      *Making Sense of Secondary Science* James Driver, 2013-01-11 What ideas do children hold about the natural world How do these ideas affect their learning of science When children begin secondary school they already have knowledge and ideas about many aspects of the natural world from their experiences both in primary classes and outside school These ideas contribute to subsequent learning and research has shown that teaching is unlikely to be effective unless it takes learners perspectives into account Making Sense of Secondary Science Research into Children s Ideas provides a concise accessible summary of the research that has been done internationally in this area The research findings are arranged in three main sections life and living processes materials and their properties and physical processes Much of this material has hitherto been difficult to access and its publication in

this convenient form will be welcomed by all science teachers both in initial training and in schools who want to deepen their understanding of how their children think

*Extraction 2018* Boyd R. Davis, Michael S. Moats, Shijie Wang, Dean Gregurek, Joël Kapusta, Thomas P. Battle, Mark E. Schlesinger, Gerardo Raul Alvear Flores, Evgueni Jak, Graeme Goodall, Michael L. Free, Edouard Asselin, Alexandre Chagnes, David Dreisinger, Matthew Jeffrey, Jaeheon Lee, Graeme Miller, Jochen Petersen, Virginia S. T. Ciminelli, Qian Xu, Ronald Molnar, Jeff Adams, Wenying Liu, Niels Verbaan, John Goode, Ian M. London, Gisele Azimi, Alex Forstner, Ronel Kappes, Tarun Bhambhani, 2018-08-18 This three volume set presents papers from the first collaborative global metallurgy conference focused exclusively on extractive topics including business and economic issues Contributions examine new developments in foundational extractive metallurgy topics and techniques and present the latest research and insights on emerging technologies and issues that are shaping the global extractive metallurgy industry The book is organized around the following main themes hydrometallurgy pyrometallurgy sulfide flotation and extractive metallurgy markets and economics

**Making Sense of Secondary Science**, 1994 [Celebrating the Megascale](#) Phillip Mackey, Eric Grimsey, Rodney Jones, Geoffrey Brooks, 2016-12-02 The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to David Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals

**Making Sense of Secondary Science** Rosalind Driver, Ann Squires, Peter Rushworth, Valerie Wood-Robinson, 2014-09-19 What ideas do children hold about the natural world How do these ideas affect their learning of science Young learners bring to the classroom knowledge and ideas about many aspects of the natural world constructed from their experiences of education and from outside school These ideas contribute to subsequent learning and research has shown that teaching of science is unlikely to be effective unless it takes learners perspectives into account Making Sense of Secondary Science provides a concise accessible summary of international research into learners ideas about science presenting evidence based insight into the conceptions that learners hold before and even despite teaching With expert summaries from across the science domains it covers research findings from life and living processes materials and their properties and physical processes This classic text is essential reading for all trainee secondary elementary and primary school science teachers as well as those researching the science curriculum and science methods who want to deepen their understanding of how learners think and to use these insights to inform teaching strategies It also provides a baseline for researchers wishing to investigate contemporary influences on children s ideas and to study the persistence of these conceptions Both components of Making Sense of Secondary Science this book and the accompanying teacher s resource file Making Sense of Secondary Science Support materials for teachers were developed as

a result of a collaborative project between Leeds City Council Department of Education and the Children s Learning in Science Research Group at the University of Leeds UK      **Chemistry and Industry** ,1980

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