

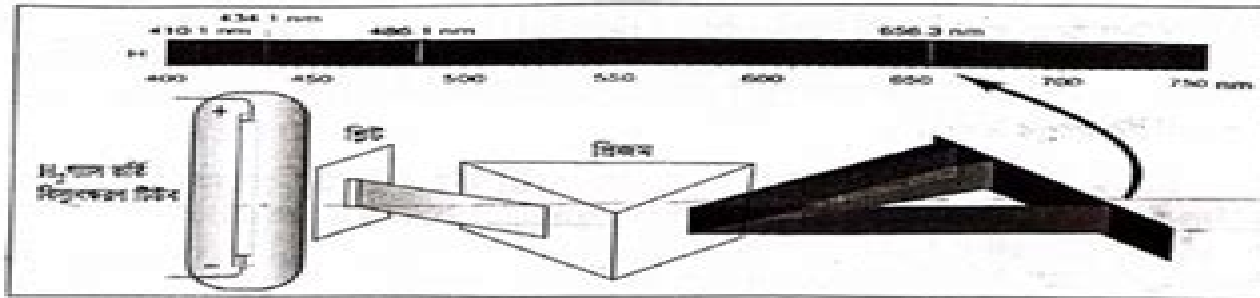
ভূমিকার আলোচনা = ২২  
প্রশ্ন কর্মকাণ্ড = ১০  
মোট পিরিয়ড = ৩২

## 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 মূলক 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, হুভের 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, ক্রোমাটোগ্রাফি।



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, হুভ 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

**Mike Jess**



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

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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

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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 Megascala** 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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