

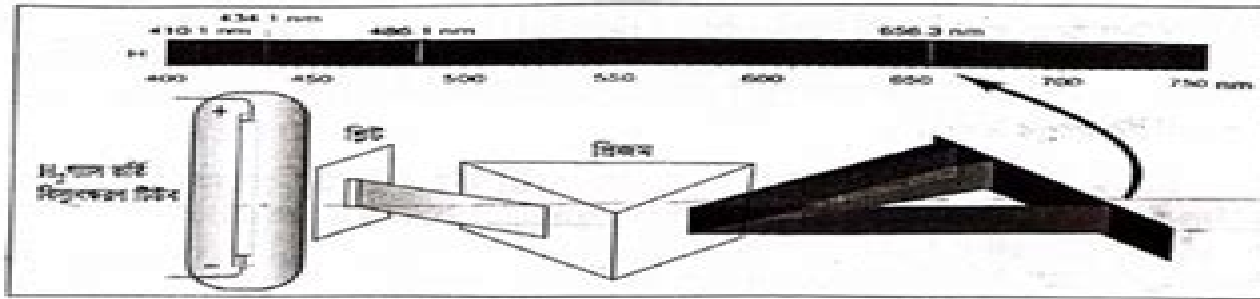
ভূমিকার আলোচনা = ২২
প্রশ্ন কর্মকাণ্ড = ১০
মোট পিরিয়ড = ৩২

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 সমন্বয়ী 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, 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 শক্তিস্তর 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।

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