

কুমিল্লা বোর্ড

- ১৪। জিনের খোলায় সাথে পেরুর রস যোগ করলে কোন গ্যাসটি উৎপন্ন হবে?
(ক) SO_2 (খ) CO_2
(গ) H_2 (ঘ) Cl_2

- ১৫। পেন্টোশিয়ারে শতকরা কতভাগ দ্যাপকা থাকে?
(ক) 2% (খ) 5%
(গ) 10% (ঘ) 13%

- ১৬। অপিহায়মের সংকেত কোনটি?
(ক) HOCl (খ) H_2SO_4
(গ) HClO_4 (ঘ) $\text{H}_2\text{S}_2\text{O}_7$

১৭।

Gr-1	Gr-16	Gr-17
A		
D		F
E	S	Q

[A, D, E এবং Q প্রতীকী অর্থে ব্যবহৃত]

উদ্দীপকের মৌলগুলোর মধ্যে—

- I. A-এর আয়নীকরণ শক্তি D অপেক্ষা কম
II. D-এর পারমাণবিক আকার Q অপেক্ষা ছোট
III. E, D অপেক্ষা অধিকতর সক্রিয়

নিচের কোনটি সঠিক?

- (ক) I ও II (খ) II ও III
(গ) I ও III (ঘ) I, II ও III

250 ml প্রক্ষেপে 4.9g স্বাব্যাস লবণ প্রস্তুত করা হল।

উদ্দীপকের আলোকে ১৮ ও ১৯ নং প্রশ্নের উত্তর দাও:

- ১৮। প্রকপটির মোলারিটি কত?

- (ক) 1.78 M (খ) 0.49 M
(গ) 0.33 M (ঘ) 0.21 M

- ১৯। প্রকপটিতে আরও কতভাগ লবণ যোগ করলে তা-পেরি মোলার গ্রুপে পরিণত হবে?

- (ক) 2.41 (খ) 3.43
(গ) 4.9 (ঘ) 7.3

- ২০। যেহে কোন উপাদান মৌলটি উপস্থিত?

- (ক) ক্রোমিয়াম (খ) হাইড্রোজেন
(গ) অক্সিজেন (ঘ) নাইট্রোজেন

- ২১। কোনটি তাপ নিলে কঠিন অবস্থা থেকে সরাসরি বাষ্পে পরিণত হয়?

- (ক) C_6H_6 (খ) $\text{C}_6\text{H}_{12}\text{O}_6$
(গ) $\text{C}_{10}\text{H}_{16}\text{O}$ (ঘ) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$

- ২২। ১টি ইলেকট্রনের ভর কত?

- (ক) $1.673 \times 10^{-24}\text{g}$
(খ) $1.60 \times 10^{-19}\text{g}$
(গ) $1.675 \times 10^{-24}\text{g}$
(ঘ) $9.11 \times 10^{-28}\text{g}$

- ২৩। অরুন দর্শনের সময় পটাসিয়াম কোন মৌলের ইলেকট্রন বিন্যাস লাভ করে?

- (ক) Ar (খ) Cr
(গ) Kr (ঘ) Sr

- ২৪। কোনটি দল রেডক্স বিক্রিয়া?

- (ক) $\text{Zn(s)} + \text{H}_2\text{SO}_4(\text{l}) \rightarrow \text{ZnSO}_4(\text{aq}) + \text{H}_2(\text{g})$
(খ) $2\text{FeCl}_2(\text{aq}) + \text{Cl}_2(\text{g}) \rightarrow 2\text{FeCl}_3(\text{aq})$
(গ) $\text{Mg(s)} + 2\text{O}_2(\text{g}) \rightarrow 2\text{MgO(s)}$
(ঘ) $\text{NaCl(aq)} + \text{AgNO}_3(\text{aq}) \rightarrow \text{AgCl(s)} + \text{NaNO}_3(\text{aq})$

- ২৫। 24 পারমাণবিক সংখ্যা বিশিষ্ট মৌলটির অবস্থান পর্যায় সারণির কোন গ্রুপে?

- (ক) 6 (খ) 8
(গ) 10 (ঘ) 12

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ML Morrison



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