

সিলেট বোর্ড

বহুনির্বাচনি অধীক্ষা

তদারকন

প্রথম পত্র

[২০২৩ সালের সিলেটবাস অধ্যায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 6

সেট :

খ

[বিশেষ দ্রষ্টব্য : সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ত্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলা পরেই কলাম দ্বারা সম্পূর্ণ করতে কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাণ্ড/চিহ্ন দেয়া যাবে না।

- ১। চিকিৎসা বিজ্ঞানে ডিজিগনোজিসে কোনটি ব্যবহার করা হয়?

(ক) X-ray
(খ) IR
(গ) MRI
(ঘ) UV

উল্লিখিত থেকে ২ এবং ৩ নং প্রশ্নের উত্তর দাও :

মৌল	বহির্গতরের ইলেকট্রন বিন্যাস	সকল কেসে n এর মান 2
A	$(n-1)s^1$	
B	ns^2np^4	
C	$(n+1)s^2(n+1)p^4$	

A, B এবং C প্রদত্ত মৌলের প্রতীক নয়।

- ২। A_2B ও A_2C যৌত অবস্থার ত্রিমাত্রিক ক্রম—

(ক) আয়নিক বন্ধন
(খ) সমযোজী বন্ধন
(গ) হাইড্রোজেন বন্ধন
(ঘ) সল্লিবেল বন্ধন

- ৩। A_2B যৌলের ক্ষেত্রে—

I. sp^3 সংকরণ ঘটে
II. বন্ধন কোণ 104.5°
III. $(L_p - L_p)$ বিকর্ষণ বিদ্যমান

নিচের কোনটি সঠিক?

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

- ৪। নিচের মৌলগুলোর ১ম আয়নীকরণ বিভবের সঠিক ক্রম কোনটি?

(ক) $Be > B > N > O$
(খ) $N > O > Be > B$
(গ) $O > N > B > Be$
(ঘ) $B > Be > N > O$

- ৫। প্রোটনের প্রকৃত ভর কত?

(ক) $1.60 \times 10^{-24} \text{ g}$
(খ) $1.66 \times 10^{-24} \text{ g}$
(গ) $1.673 \times 10^{-24} \text{ g}$
(ঘ) $1.675 \times 10^{-24} \text{ g}$

- ৬। কোনটি প্রথম অক্সাইড?

(ক) NO
(খ) N_2O_5
(গ) N_2O_3
(ঘ) NO_2

- ৭। S-গ্রক মৌলের সংখ্যা কতটি?

(ক) 7
(খ) 12
(গ) 14
(ঘ) 16

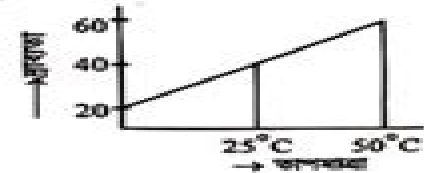
- ৮। পরমাণুর ৩য় শক্তিস্তরে ঘূর্ণিত ইলেকট্রনের কৌণিক ভরবেগ এর মান কোনটি?

(ক) $\frac{nh}{2\pi}$
(খ) $\frac{3h}{2\pi}$
(গ) $\frac{2h}{4\pi}$
(ঘ) $\frac{9h}{2\pi}$

- ৯। কোনটি উভয়দিকী অক্সাইড?

(ক) Al_2O_3
(খ) Na_2O_2
(গ) KO_2
(ঘ) Fe_2O_3

উল্লিখিত হতে ১০ এবং ১১ নং প্রশ্নের উত্তর দাও :



- ১০। 200g NH_4Cl এর সম্পূর্ণ দ্রবককে $50^\circ C$ থেকে $25^\circ C$ তাপমাত্রায় ঠাণ্ডা করলে কত গ্রাম NH_4Cl ক্রিস্টালিত হবে?

(ক) 25
(খ) 50
(গ) 75
(ঘ) 90

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