

## বরিশাল বোর্ড

বহুনির্বাচনি অধীক্ষা

মসাদান

দ্বিতীয় পত্র

[২০২৩ সালের বিশেষায়ন অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

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সেট :

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[বিশেষ প্রতিষ্ঠা: সত্যমোহনবৃত্ত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ত্রুটিসহ সমস্যার বিপরীতে প্রদত্ত কনিষ্ঠতম বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বসে পড়েই কলম দ্বারা সম্পূর্ণ করা হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাণ্ড/চিহ্ন দেয়া যাবে না।

১। কোন গ্যাসদ্বয়ের ব্যাপন হার সমান?

- ☒ (ক)  $N_2, C_2H_4$   
☐ (খ)  $Cl_2, O_2$   
☐ (গ)  $CO, O_2$   
☐ (ঘ)  $H_2, O_2$

২। নিচের কোন যৌগটির সাথে  $Br_2$  সহজে সংযোজন বিক্রিয়া দেয়?

- ☒ (ক)  $C_6H_5NO_2$   
☐ (খ)  $C_5H_{10}$   
☐ (গ)  $C_4H_{10}$   
☐ (ঘ)  $C_3H_{12}$

৩। অ্যাসকর্বিং হালোহাইড কোন ধরনের বিক্রিয়া প্রদর্শন করে?

- ☒ (ক) ইলেকট্রোফিলিক সংযোজন  
☐ (খ) নিউক্লিওফিলিক প্রতিস্থাপন  
☐ (গ) ডি কার্বাইলসেশন  
☐ (ঘ) অ্যাসকর্বিং ফরমেশন

৪। 100 mL 0.01M  $K_2Cr_2O_7$  দ্রবণের ppm ঘনমাত্রা কত?

- ☐ (ক) 2.94  
☐ (খ) 29.4  
☐ (গ) 294  
☒ (ঘ) 2940

৫। STP তে কোন গ্যাসের 2.0 গ্রাম সবচেয়ে বেশি আয়তন দখল করে?

- ☐ (ক)  $O_2$  ☐ (খ)  $Cl_2$   
☒ (গ)  $He$  ☐ (ঘ)  $N_2$

৬। ফারিয়ার দ্রবণে  $KMnO_4$  করটি ইলেকট্রন গ্রহণ করে?

- ☒ (ক) 1 ☐ (খ) 3  
☐ (গ) 5 ☐ (ঘ) 7

৭। নিচের কোন পদার্থটি সহজে পরিণত স্থায়ী ধাতব পুত ককার জন্য ব্যবহার করা যায় না?

- ☒ (ক) ফুটিন  
☐ (খ) অক্সিক পেরক্স সংযোজন  
☐ (গ) পেরক্সাইড কার্বনেট সংযোজন  
☐ (ঘ) পাতন

৮। কোনটি গ্রাইবারি স্ট্যান্ডার্ড পদার্থ?

- ☐ (ক)  $KMnO_4$   
☐ (খ)  $NaOH$   
☒ (গ)  $K_2Cr_2O_7$   
☐ (ঘ)  $HCl$

৯। নিচের কোন আয়নটি অরক ও বিজারক উভয় হিসেবে কাজ করে?

- ☐ (ক)  $Pb^{4+}$   
☐ (খ)  $Sn^{4+}$   
☐ (গ)  $Mn^{7+}$   
☒ (ঘ)  $Fe^{2+}$

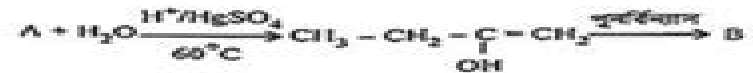
১০।  $Fe^{2+} + 2e^- \rightarrow Fe$  বিক্রিয়ার 28 g Fe দ্রব উৎপাদনে কত ভোল্ট চার্জ প্রয়োজন হবে?

- ☐ (ক) 4F  
☐ (খ) 3F  
☐ (গ) 2F  
☒ (ঘ) 1F

১১।  $C_3H_7MgX$  ও  $CO_2$  এর বিক্রিয়ার উৎপন্ন যৌগের আরও বিক্রিয়ায় কী উৎপন্ন হবে?

- ☐ (ক) মিউটোন  
☒ (খ) মিউটোনিক এসিড  
☐ (গ) মিউটোনল  
☐ (ঘ) মিউটোনাল

নিচের উদ্বীপক ব্যবহার করে ১২ ও ১৩ নং প্রশ্নের উত্তর দাও :



১২। B যৌগটি কোন বিক্রিয়া প্রদর্শন করে?

- ☐ (ক) হফম্যান ডিমেরেশন বিক্রিয়া  
☒ (খ) ডিমেরেশন বিজারণ বিক্রিয়া  
☐ (গ) উর্টল বিক্রিয়া  
☐ (ঘ) ক্রিমেল-জানকি বিক্রিয়া

[পর পৃষ্ঠা প্রতিষ্ঠা]

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