

যশোর বোর্ড

১০। নিচের কোন যৌগটি পাকা কলায় বিদ্যমান?

- ☒ অ্যামাইল এসিটেট
(খ) অক্টাইল এসিটেট
(গ) ইথাইল বিউটাইরেট
(ঘ) বেনজাইল এসিটেট

১১। আলোক সক্রিয় সমাপু হওয়ার জন্য অ্যালকেনের সর্বনিম্ন কার্বন সংখ্যা হবে—

- ☒ 7 (খ) 8
(গ) 9 (ঘ) 10

১২। হির চাপে 0°C তাপমাত্রায় O_2 গ্যাসের আয়তন 3.5L, হলে 20°C তাপমাত্রায় গ্যাসটির আয়তন হবে—

- (ক) 3.25L ☒ 3.76L
(গ) 7.0L (ঘ) 8.0L

১৩। 0.15M NaOH দ্রবণের ppm ঘনমাত্রা কত?

- (ক) 4000 (খ) 5000
(গ) 7000 ☒ 6000

১৪। $2\text{FeCl}_3 + \text{SnCl}_2 \rightarrow 2\text{FeCl}_2 + \text{SnCl}_4$

- বিক্রিয়াটিতে জারিত হয়েছে কোনটি?
(ক) FeCl_3 (খ) FeCl_2
(গ) SnCl_4 ☒ SnCl_2

১৫। কৃত্রিমভাবে সারফেন্স তরঙ্গিতের বিসৃঙ্খতার মাপদণ্ড কোনটি?

- (ক) TDS (খ) COD
☒ pH (ঘ) BOD

নিচের উদ্দীপকটি পড় এবং ১৬ ও ১৭ নং প্রশ্নের উত্তর দাও :

A ধাতুর ক্ষেত্রে $E^{\circ}_{A/A^{2+}} = 0.88\text{V}$

B ধাতুর ক্ষেত্রে $E^{\circ}_{B/B^{2+}} = -0.35\text{V}$

$E^{\circ}_{B^{2+}/B} = +0.35\text{V}$

১৬। উদ্দীপকের তথ্যসমূহের দ্বারা গঠিত কোষের জন্য—

- i. $E^{\circ}_{\text{cell}} = E^{\circ}_{A/A^{2+}} + E^{\circ}_{B/B^{2+}}$
ii. $E^{\circ}_{\text{cell}} = E^{\circ}_{A/A^{2+}} + E^{\circ}_{B^{2+}/B}$
iii. $E^{\circ}_{\text{cell}} = E^{\circ}_{B^{2+}/B} - E^{\circ}_{A^{2+}/A}$

নিচের কোনটি সঠিক?

- (ক) i ও ii ☒ ii ও iii
(গ) i ও iii (ঘ) i, ii ও iii

১৭। তড়িৎপ্রবাহের দ্বারা গঠিত কোষের ক্ষেত্রে প্রযোজ্য হবে—

- (ক) A ধাতু ক্যাথোড হিসেবে ব্যবহৃত হয়
☒ A ধাতু B অপেক্ষা অধিক সক্রিয়
(গ) কোষটির ডায়গ্রাম হবে $B/B^{2+} \parallel A^{2+}/A$
(ঘ) কোষটির বিভব 0.53V

১৮। $\text{CH}_3-\text{CH}=\text{CH}-\text{COOH}$ যৌগটির IUPAC নাম হলো—

- (ক) But-1-en-2-oic acid
(খ) But-2-en-2-oic acid
☒ But-2-en-1-oic acid
(ঘ) Buten-1-oic acid

১৯। অম্লজলিক এসিডকে NaOH দ্বারা টাইট্রেশনের ক্ষেত্রে ব্যবহৃত নির্দেশকটি হলো—

- ☒ ফেনলফথ্যালিন
(খ) মিথাইল রেড
(গ) মিথাইল অরেঞ্জ
(ঘ) থাইমল ব্লু

২০। কোনটি বিজারক পদার্থ?

- (ক) KMnO_4 ☒ FeSO_4
(গ) H_2SO_4 (ঘ) $\text{K}_2\text{Cr}_2\text{O}_7$

২১। নিচের কোনটির জন্য $\frac{dV}{dT}$ প্রযোজ্য?

- (ক) মোলালিটি ☒ মোলালিটি
(গ) নরমালিটি (ঘ) ফরমালিটি

২২। তড়িৎ বিশ্লেষণকালে কোনটি আগে জারিত হবে?

- (ক) H^+ (খ) Pb^{2+}
☒ Cu^{2+} (ঘ) Na^+

২৩। $\text{RCH}_2\text{CH}_2\text{X} \xrightarrow{\text{KCN}} \text{X} \xrightarrow[\text{H}^+]{\text{H}_2\text{O}} \text{Y}$

Y হলো—

- (ক) ক্রিটোন (খ) অ্যালকোহল
(গ) অ্যালডিহাইড ☒ কার্বক্সিলিক এসিড

২৪। $\text{CH}_3\text{CH}_2\text{Cl} \xrightarrow{\text{Na}} \text{B}$

তরল ইথার

$\xrightarrow{\text{KOH(aq)}} \text{C}$

B ও C উৎপাদদ্বয়ের সংকেত হল—

- ☒ $\text{CH}_3(\text{CH}_2)_2\text{CH}_3$ ও $\text{CH}_3\text{CH}_2\text{OH}$
(খ) $\text{CH}_3\text{CH}_2\text{CH}_3$ ও $\text{CH}_2=\text{CH}_2$
(গ) $\text{CH}_3(\text{CH}_2)_2\text{CH}_3$ ও $\text{CH}_2=\text{CH}_2$
(ঘ) $\text{CH}_3\text{CH}_2\text{CH}_3$ ও $\text{CH}_3\text{CH}_2\text{OH}$

২৫। কোনটি অগ্রতিসম অ্যালকিন?

- (ক) $\text{CH}_2=\text{CH}_2$
(খ) $\text{CH}_3-\text{CH}=\text{CH}-\text{CH}_3$
☒ $\text{CH}_2=\text{CH}-\text{CH}_3$
(ঘ) $\text{ClCH}=\text{CHCl}$

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Jenny Harrison



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