

চট্টগ্রাম বোর্ড

১২। $[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$ এনিওনের অনুবর্তী অক্ষক হলো—

- (ক) $[\text{Fe}(\text{H}_2\text{O})_4(\text{OH})_2]^+$
☒ (খ) $[\text{Fe}(\text{H}_2\text{O})_5(\text{OH})]^{2+}$
 (গ) $[\text{Fe}(\text{H}_2\text{O})_5(\text{OH})]^{3+}$
 (ঘ) $[\text{Fe}(\text{H}_2\text{O})_6(\text{OH})]^{2+}$

১৩। অক্সিডেশন-রাসায়নিক কোষের emf = 7

- I. $E^\circ_{\text{Anode (ox)}} + E^\circ_{\text{Cathode (Red)}}$
 II. $E^\circ_{\text{Cathode (Red)}} - E^\circ_{\text{Anode (Red)}}$
 III. $E^\circ_{\text{Anode (ox)}} - E^\circ_{\text{Cathode (ox)}}$

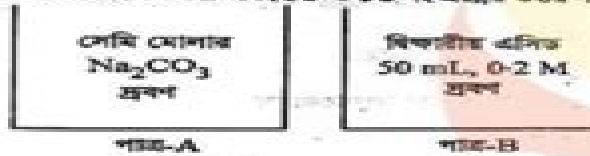
কোনটি সঠিক?

- (ক) I ও II ☒ (খ) I ও III
 (গ) II ও III

১৪। 27°C তাপমাত্রায় 8 g CH_4 গ্যাসের পটেনশিয়াল কত হলো?

- (ক) 935-32 ☒ (খ) 1870-65
 (গ) 3741-30 (ঘ) 4870-30

উদ্দীপকটি লক্ষ্য কর এবং ১৫ ও ১৬ নং প্রশ্নের উত্তর দাও।



[পাত্র B এর দ্রবণ দ্বারা A পাত্রের দ্রবণ সম্পূর্ণরূপে প্রতিস্থাপিত হয়]

১৫। A পাত্রের দ্রবণের ঘনমাত্রা ppm এককে কত?

- ☒ (ক) 5.3×10^4 (খ) 1.06×10^3
 (গ) 9.8×10^3 (ঘ) 1.96×10^4

১৬। A পাত্রের দ্রবণের আয়তন কত?

- ☒ (ক) 20 mL (খ) 40 mL
 (গ) 1000 mL (ঘ) 2000 mL

১৭। বেনজিনের কার্বন-কার্বন বন্ধন দূরত্ব কত nm?

- (ক) 0.154 ☒ (খ) 0.139
 (গ) 0.134 (ঘ) 0.120

১৮। দ্রবণে FeSO_4 প্রবণ রাখলে সুই কোষের কোষ বিভব হবে—

$$[E^\circ_{\text{Zn}^{2+}(\text{aq})/\text{Zn(s)}} = -0.76 \text{ V}; \\ E^\circ_{\text{Fe}^{2+}(\text{aq})/\text{Fe(s)}} = -0.44 \text{ V}]$$

- (ক) -0.32 V (খ) -1.20 V
☒ (গ) +0.32 V (ঘ) +1.20 V

১৯। কোন গ্যাসটি বয়েলের সূত্র হতে সবচেয়ে কম বিচ্যুত হবে?

- ☒ (ক) H_2 (খ) CO_2
 (গ) N_2 (ঘ) O_2

২০। হেটেরো অ্যারোমেটিক বৌদ কোনটি?

- (ক) ইমিডিন অক্সাইড (খ) কেনজিন
☒ (গ) পিরিডিন (ঘ) জেট্রাফাইনোবিকউরান

২১। কোন বৌদে 'C' এর জারণ মান শূন্য?

- (ক) CH_4 (খ) CO
☒ (গ) CH_2Cl_2 (ঘ) C_2H_2

২২। একই মাত্রার বিদ্যুৎ একই সময় চালনা করলে কোন অর্ধকোষ কার্বোকে বেশি জমা হবে?

- (ক) Cu^{2+} (খ) Fe^{3+}
☒ (গ) Ag^+ (ঘ) Na^+

২৩। SATP তে নাইট্রাস অক্সাইড গ্যাসের ঘনত্ব g L^{-1} এককে কত?

- ☒ (ক) 1.77 (খ) 1.96
 (গ) 1.85 (ঘ) 1.21

উদ্দীপকটি লক্ষ্য কর এবং ২৪ ও ২৫ নং প্রশ্নের উত্তর দাও।



২৪। A বৌদটি হলো—

- (ক) $\text{R}-\text{CH}(\text{OH})-\text{CH}_3$
 (খ) $\text{R}-\text{CH}_2-\text{CH}_2-\text{OH}$
☒ (গ) $\text{R}-\text{CH}_2-\text{CH}_2-\text{Br}$
 (ঘ) $\text{R}-\text{CH}(\text{Br})-\text{CH}_3$

২৫। উক্ত বিক্রিয়া—

- I. ব্যবসায়িক দ্রুতি প্রযোজ্য নয়
 II. উৎপাদ A অস্বাদ্য সক্রিয়
 III. মুক্ত মূলক সৃষ্টির মাধ্যমে বিক্রিয়া সংঘটিত হয়

কোনটি সঠিক?

- (ক) I ও II ☒ (খ) I ও III
 (গ) II ও III

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Victor M. Corman



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Table of Contents Hsc Chemistry 2nd Paper Objective Answer 23

1. Understanding the eBook Hsc Chemistry 2nd Paper Objective Answer 23
 - The Rise of Digital Reading Hsc Chemistry 2nd Paper Objective Answer 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Chemistry 2nd Paper Objective Answer 23
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Chemistry 2nd Paper Objective Answer 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Chemistry 2nd Paper Objective Answer 23
 - Personalized Recommendations
 - Hsc Chemistry 2nd Paper Objective Answer 23 User Reviews and Ratings
 - Hsc Chemistry 2nd Paper Objective Answer 23 and Bestseller Lists
5. Accessing Hsc Chemistry 2nd Paper Objective Answer 23 Free and Paid eBooks
 - Hsc Chemistry 2nd Paper Objective Answer 23 Public Domain eBooks
 - Hsc Chemistry 2nd Paper Objective Answer 23 eBook Subscription Services
 - Hsc Chemistry 2nd Paper Objective Answer 23 Budget-Friendly Options

6. Navigating Hsc Chemistry 2nd Paper Objective Answer 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Chemistry 2nd Paper Objective Answer 23 Compatibility with Devices
 - Hsc Chemistry 2nd Paper Objective Answer 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Chemistry 2nd Paper Objective Answer 23
 - Highlighting and Note-Taking Hsc Chemistry 2nd Paper Objective Answer 23
 - Interactive Elements Hsc Chemistry 2nd Paper Objective Answer 23
8. Staying Engaged with Hsc Chemistry 2nd Paper Objective Answer 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Chemistry 2nd Paper Objective Answer 23
9. Balancing eBooks and Physical Books Hsc Chemistry 2nd Paper Objective Answer 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Chemistry 2nd Paper Objective Answer 23
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Chemistry 2nd Paper Objective Answer 23
 - Setting Reading Goals Hsc Chemistry 2nd Paper Objective Answer 23
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Chemistry 2nd Paper Objective Answer 23
 - Fact-Checking eBook Content of Hsc Chemistry 2nd Paper Objective Answer 23
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web fermat s last theorem is a popular science book 1997 by simon singh it tells the story of the search for a proof of fermat s last theorem first conjectured by pierre de fermat in 1637 and explores how many mathematicians such as Évariste galois

had tried and failed to provide a proof for the theorem

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web fermat s last theorem also known as fermat s conjecture or wiles theorem states that no three positive integers x y z $x^y = z^x$ satisfy $x^n + y^n = z^n$ for any integer $n > 2$ although a special case for $n = 4$ was proven by fermat himself using infinite descent and fermat famously wrote in the margin of one of his books in

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web this theorem showed that the area of a pythagorean triangle having integral sides cannot be a square integer this theorem leads to the proof of fermat s last theorem for the case $n = 4$ that is $x^4 + y^4 = z^4$ has no solutions fermat claimed to be able to prove the conjecture for $n = 3$ but published no proof

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web fermat s last theorem and progress prior to 1980 fermat s last theorem formulated in 1637 states that no three positive integers a b and c can satisfy the equation $a^n + b^n = c^n$ if n is an integer greater than two $n > 2$ over time this simple assertion became one of the most famous unproved claims in mathematics

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web though a hole in the proof was discovered it was patched by wiles and richard taylor in 1994 at last fermat s conjecture had become a theorem presentation suggestions students often find it amazing that such a great unsolved problem

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web fermat s theorem may refer to one of the following theorems fermat s last theorem about integer solutions to an $a^n + b^n = c^n$ fermat s little theorem a property of prime numbers fermat s theorem on sums of two squares about primes expressible as a sum of two squares
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web fermat s last theorem overview the pythagorean equation $x^2 + y^2 = z^2$ has an infinite number of positive integer solutions for x y and z mathematical history in ancient times it was known that a triangle whose sides were in the ratio 3 4 5 would have a relationship to other problems and

kyoto professor s theory offers 2nd proof to fermat s last theorem - Feb 14 2022

web dec 2 2021 fermat s last theorem is a conjecture stated around 1637 by the french mathematician pierre de fermat that if n is a positive integer greater than 2 no positive integers x y and z satisfy the

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web in 1932 h s vandiver 6324 6325 gave a short proof of kummer s theorem about fermat s last theorem in the case of regular prime exponents and in the following year m moriya gave a simple proof of e maillet s result on the insolvability of fermat s equation

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web mathematical preliminaries fermat s last theorem states that no three positive integers a b c can satisfy the equation $a^n + b^n = c^n$ for any integer value of n greater than two for n equal to 1 the equation is a linear equation and has a solution for every possible a b

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web fermat s last theorem also called fermat s great theorem the statement that there are no natural numbers $1 < 2 < 3 < x$ y and z such that $x^n + y^n = z^n$ in which n is a natural number greater than 2

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web may 29 2018 fermats last theorem views 2 522 191 updated jun 08 2018 fermat s last theorem theory that for all integers $n > 2$ there are no non zero integers x y and z that satisfy the equation $x^n + y^n = z^n$ fermat wrote that he had found a proof but he died without revealing it

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web jun 23 2022 according to fermat s last theorem no three positive integers a b c satisfy the equation for any integer value of n greater than 2 for $n = 1$ and $n = 2$ the equation have infinitely many solutions some solutions for $n = 1$ are 2 3 5 7 13 20 5 6 11 10 9 19 some solutions for $n = 2$ are c java

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web fermat s last theorem states that if n is any natural number greater than 2 the equation $a^n + b^n = c^n$ has no solutions in

integers all different from 0 starting with

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web fermat s last theorem is a theorem first proposed by fermat in the form of a note scribbled in the margin of his copy of the ancient greek text arithmetica by diophantus the scribbled note was discovered posthumously and the original is now lost

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