

Quiz 3 for Physics 176: Answers

Professor Greenside

True or False Questions (2 points each)

For each of the following statements, please circle **T** or **F** to indicate respectively whether a given statement is true or false.

1. **T / F** If the volume V of an ideal monatomic gas is halved during an isothermal compression that conserves the number of particles, then the entropy of the gas will decrease by $Nk \ln(2)$.

Answer: T This was discussed in Schroeder and in lecture and is a direct consequence of the Sackur-Tetrode equation, which was given on the first page of the quiz. If the number of particles N and total particle energy U are fixed, then Sackur-Tetrode says that $S = Nk \ln(V) + f(N, U)$, where f is a function that depends only on N and U and so does not change during a volume change and so can be ignored when computing the entropy change. This problem needed to assume an isothermal compression to prevent the energy U from changing during the compression.

Thus the change in entropy during the isothermal compression of an ideal monatomic gas is $\Delta S = S_f - S_i = Nk \ln(V_f) - Nk \ln(V_i) = Nk \ln(V_f/V_i)$. For this problem, $V_f/V_i = 1/2$ so the change in entropy is $\Delta S = Nk \ln(1/2) = -Nk \ln(2)$, which is indeed a decrease in the entropy by the magnitude $Nk \ln(2) \approx 0.7Nk$.

2. **T / F** The product of an extensive thermodynamic quantity with an intensive thermodynamic quantity is also an extensive quantity.

Answer: T This question was intended to test whether you understood my brief description in class about extensive variables like M , V , S , and U versus intensive variables like P , T , $\rho = M/V$, $n = N/V$, and so on. Extensive variables increase in proportion to the volume of the system (keeping the density N/V constant), e.g. if you double the volume you typically double the entropy and the mass. Intensive variables are almost always ratios of two extensive variables and so don't change when the volume is varied. From this, you should be able to see that the product of an extensive variable with an intensive variable remains extensive: changing the volume causes the extensive variable to change, but the intensive factor does not change.

3. **T / F** Given that the function $f(x) = 1 - x^4$ has a single maximum at $x_{\max} = 0$ with value $f_{\max} = 1$, the function $[f(x)]^N$ for N a large integer can be accurately approximated by a Gaussian $e^{-N\lambda x^2}$ for $\lambda > 0$ some constant.

Answer: F This question was intended to see if you could think rather than just memorize. In class, we discussed a "theorem", that a function $f(x)$ with a unique global maximum, if raised to a large power N , $f(x)^N$, behaves like a narrow Gaussian function centered on the location x_{\max} of the global maximum. The derivation involved taking the log of the function $f(x)^N$ to get $N \log(f(x))$, Taylor expanding $f(x)$ about $x = x_{\max}$, and using our favorite log approximation $\log(a + \epsilon) \approx \log(a) + \epsilon/a$.

A key step in the derivation was taking the Taylor expansion to second order:

$$f(x) = f(x_{\max}) + f'(x_{\max})(x - x_{\max}) + \frac{1}{2!}f''(x_{\max})(x - x_{\max})^2 + \dots \quad (1)$$

$$\approx f_{\max} + \frac{f''(x_{\max})}{2}(x - x_{\max})^2. \quad (2)$$

But this procedure only works if the Taylor expansion has a nonzero coefficient $f''(x_{\max})$ at the location of the global maximum, otherwise you get some other kind of functional behavior that is not a Gaussian.

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Ralph Thomas Myers



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Educart CBSE Class 12 Chemistry One Shot Question Bank 2026 (Includes PYQs for 2025-26) , Runtime

Verification Bernd Finkbeiner, Leonardo Mariani, 2019-10-03 This book constitutes the refereed proceedings of the 19th International Conference on Runtime Verification RV 2019 held in Porto Portugal in October 2019 The 25 regular papers presented in this book were carefully reviewed and selected from 38 submissions The RV conference is concerned with all aspects of monitoring and analysis of hardware software and more general system executions Runtime verification techniques are lightweight techniques to assess system correctness reliability and robustness these techniques are significantly more powerful and versatile than conventional testing and more practical than exhaustive formal verification Chapter Assumption Based Runtime Verification with Partial Observability and Resets and chapter NuRV a nuXmv Extension for Runtime Verification are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Get NIELIT Scientist B Imp. Questions and start preparing now!*, 2023-04-03 To boost your scores and clear the NIELIT Scientist B cut off refer to the NIELIT Scientist B important questions provided in PDF form Solve these ques and get the study notes for your exam prep **Quick Review: Inorganic Chemistry for the MCAT** E Staff, Learn and review on the go Use Quick Review Chemistry Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Perfect study notes for all students [Get Punjab ETT Teacher Important Questions.Start preparation now!](#) [testbook.com](https://www.testbook.com), 2023-03-01 Boost your marks and clear the Punjab ETT Teacher cut off by referring to the Punjab ETT Teacher important questions to ace the exam Solve these ques and get the study notes for your exam prep **Where the River Flows** Sean W. Fleming, 2019-08-06 Rivers are essential to every aspect of civilization yet how many understand how they work Fleming takes readers on a journey along our planet's waterways providing a scientist's reflections on the profound interrelationships that rivers have with landscapes ecosystems and societies *Networked Life* Mung Chiang, 2012-09-10 How does Google sell ad space and rank webpages How does Netflix recommend movies and Amazon rank products How can you influence people on Facebook and Twitter and can you really reach anyone in six steps Why doesn't the internet collapse under congestion and does it have an Achilles heel Why are you charged per gigabyte for mobile data and how can Skype and BitTorrent be free How are cloud services so scalable and why is WiFi slower at hotspots than at home Driven by twenty real world questions about our networked lives this book explores the technology behind the multi trillion dollar internet and wireless industries Providing easily understandable answers for the casually curious alongside detailed explanations for those looking for in depth discussion this thought provoking book is essential reading for students in engineering science and economics for network industry professionals and anyone curious about how technological and social networks really work *Principles of Data Communication Systems and Computer Networks (Second Edition)* K.V.K.K. Prasad, 2003-07-17 A Comprehensive coverage of Digital communication Data Communication Protocols and Mobile Computing Covers Multiplexing Multiple accesses Radio Communications Terrestrial Satellite Error Detection Correction ISO OSI Protocol Architecture Wired Internet DNS RADIUS Firewalls VPN Cellular

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Domain	Percentage
1.0 Data Science Concepts	17%
2.0 Data Preparation and Feature Engineering	27%
3.0 Model Development	31%
4.0 Model Deployment	25%

1.0 Data Science Concepts (17%) Questions covering fundamental data science methodologies statistical analysis hypothesis testing experimental design and ethical considerations

2.0 Data Preparation and Feature Engineering (27%) Extensive questions on data cleaning transformation imputation scaling encoding and creating new features using Snowflake's capabilities SQL Snowpark DataFrames UDFs UDTFs

3.0 Model Development (31%) A significant number of questions on various machine learning algorithms model training hyperparameter tuning evaluation metrics and model selection Focus on how these are implemented or integrated with Snowflake

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Python packageUse Matplotlib to create compelling data visualizationsImplement predictive machine learning models with scikit learnUse lasso and ridge regression to reduce model overfittingEvaluate random forest and logistic regression model performanceDeliver business insights by presenting clear convincing conclusionsWho this book is for Data Science Projects with Python Second Edition is for anyone who wants to get started with data science and machine learning If you re keen to advance your career by using data analysis and predictive modeling to generate business insights then this book is the perfect place to begin To quickly grasp the concepts covered it is recommended that you have basic experience of programming with Python or another similar language and a general interest in statistics Emerging Trends in Learning

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