

## Engineering Thermodynamics

### Unit 4 and Unit 5

#### Question Bank

#### Part A Questions

1. The percentage of Oxygen present in atmospheric air on mass basis  
(a) 21                      (b) 23                      (c) 79                      (d) 77
2. The percentage of Nitrogen present in atmospheric air on mass basis  
(a) 21                      (b) 23                      (c) 79                      (d) 77
3. The percentage of Oxygen present in atmospheric air on mass basis  
(a) 21                      (b) 23                      (c) 79                      (d) 77
4. The percentage of Nitrogen present in atmospheric air on mass basis  
(a) 21                      (b) 23                      (c) 79                      (d) 77
5. The temperature at which water vapour starts condensing is called  
(a) Dry bulb temperature                      (b) Wet bulb temperature  
(c) Dew point temperature                      (d) Boiling temperature
6. Psychrometer measures  
(a) Dry bulb temperature                      (b) Wet bulb temperature  
(c) Dew point temperature                      (d) Both DBT and WBT
7. The X- axis of the psychrometric chart represents  
(a) Dry bulb temperature                      (b) Wet bulb temperature  
(c) Specific humidity                      (d) Relative humidity
8. Which one of the following remains constant during sensible cooling process?  
(a) Enthalpy (h)                      (b) Dry bulb temperature  
(c) Specific humidity (W)                      (d) Relative humidity ( $\phi$ )
9. Which one of the following remains constant during sensible heating process?  
(a) Enthalpy (h)                      (b) Dry bulb temperature  
(c) Specific humidity (W)                      (d) Relative humidity ( $\phi$ )
10. The relative humidity  $\phi$  in percentage for dry air is  
(a) 0                      (b) 25                      (c) 75                      (d) 100

# Engineering Thermodynamics Question Bank With Answers

**G Thomas**



## **Engineering Thermodynamics Question Bank With Answers:**

**Comprehensive Objective Physics** Narinder Kumar, Dr. J. K. Juneja, 2006      **Engineering Thermodynamics** R. K. Singal, Mridul Singal, Rishi Singal, 2013-12-30 Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering The book will also serve as reference manual for practising engineers The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject The text has been supplemented with solved numerical problems illustrations and question banks The present book has been divided in five parts Thermodynamic Laws and Relations Properties of Gases and Vapours Thermodynamics Cycles Heat Transfer and Heat Exchangers Annexures      Elements of Physics XI ,

Thermodynamics Sanford Klein, Gregory Nellis, 2011-10-10 This book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts tools and experience needed to solve practical real world energy problems The presentation integrates computer tools such as EES with thermodynamic concepts to allow engineering students and practising engineers to solve problems they would otherwise not be able to solve The use of examples solved and explained in detail and supported with property diagrams that are drawn to scale is ubiquitous in this textbook The examples are not trivial drill problems but rather complex and timely real world problems that are of interest by themselves As with the presentation the solutions to these examples are complete and do not skip steps Similarly the book includes numerous end of chapter problems both typeset and online Most of these problems are more detailed than those found in other thermodynamics textbooks The supplements include complete solutions to all exercises software downloads and additional content on selected topics These are available on the book's website [www.cambridge.org/KleinandNellis](http://www.cambridge.org/KleinandNellis)

Advanced Technology in Teaching - Proceedings of the 2009 3rd International Conference on Teaching and Computational Science (WTCS 2009) Yanwen Wu, 2012-02-01 The volume includes a set of selected papers extended and revised from the International Conference on Teaching and Computational Science WTCS 2009 held on December 19-20 2009 Shenzhen China WTCS 2009 best papers Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Intelligent Ubiquitous Computing and Education to disseminate their latest research results and exchange views on the future research directions of these fields 128 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Prof Wu On behalf of the WTCS 2009 we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers Hoping you can find lots of profound research ideas and results on the related fields of Intelligent Ubiquitous Computing and Education      Engineering Thermodynamics Richard E. Balzhiser, Michael R. Samuels, 1977      **Engineering Thermodynamics** Ernest G. Cravalho, Joseph L. Smith, 1981      *Engineering Thermodynamics* E. F. Pickerill, 1963      **Design News** , 1963      **Global Perspectives on Micro-Learning and**

**Micro-Credentials in Higher Education** Omona, Kizito,O'dama, Modest Kayi,2024-02-27 In the rapidly evolving landscape of higher education where the acquisition of knowledge is a lifelong pursuit educators and institutions are redefining the paradigms of learning through innovative approaches Global Perspectives on Micro Learning and Micro Credentials in Higher Education delves into the intricate tapestry of contemporary education where the convergence of advanced pedagogies and cutting edge technologies is reshaping traditional boundaries As the realms of chatbots gamification and hybrid learning intersect a new era of holistic education emerges seamlessly blending theoretical prowess with experiential wisdom The book unfurls with meticulous exploration of pivotal themes embracing the nuanced realms of instructional design learning analytics and library services tailored for the modern educational era From the granular landscapes of microlearning to the macroscopic view of global teacher retention strategies the book leaves no stone unturned This book is a symphony of intellectual rigor orchestrated to resonate with educators administrators researchers and all stakeholders vested in the future of learning

The Properties of Gases and Liquids Robert C. Reid,J. M. Prausnitz,Bruce E. Poling,1987 Completely rewritten and reorganized to reflect the latest developments in estimating the properties of gases and liquids this new edition of the highly regarded reference presents a comprehensive survey of the most reliable estimation methods in use today It provides instantly usable information on estimating both physical and thermodynamic properties when experimental data are not available for example constants such as critical temperature critical pressure acentric factor and others thermodynamic properties of gases and liquids both pure and mixtures including enthalpies entropies fugacity coefficients heat capacities and critical points vapor liquid and liquid liquid equilibria as needed in separation operations such as distillation absorption and extraction An invaluable reference that provides property values for more than 600 pure chemicals this is the only book in its field to include a critical analysis of existing methods as well as practical recommendations

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