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H 2426

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009

Second Semester

Mechanical Engineering

ME 132 — THERMODYNAMICS

Time : Three hours

Maximum : 100 marks

(Use of thermodynamic tables permitted)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the difference between open and closed systems.
2. State 'Zeroth law of thermodynamics'.
3. Name the processes in Carnot cycle.
4. What is the relationship between COP of the heat pump and refrigerator?
5. Define 'Mole fraction'.
6. State the laws of perfect gas.
7. What is super saturated steam?
8. Find the specific volume, enthalpy and entropy of saturated steam at 10 bar.
9. What is meant by 'Adiabatic flame temperature'?
10. What is the mass of carbon-dioxide from one kg of carbon combustion?

PART B — (5 × 16 = 80 marks)

11. (a) Determine the heat transfer and its direction for a system in which a perfect gas having molecular weight of 16 is compressed from 101.3 kPa, 20°C to a pressure of 600 kPa following the law $Pv^{1.2} = \text{constant}$. Take specific heat at constant pressure of gas as 1.7 kJ/kgK. (16)

Or

Engineering Thermodynamics Question Paper Pune University

S C. Singhal



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FUNDAMENTALS OF MECHANICAL ENGINEERING SAWHNEY, G. S., 2015-06-30 Written with the first year engineering students of undergraduate level in mind the well designed textbook now in its Third Edition explains the fundamentals of mechanical engineering in the area of thermodynamics mechanics theory of machines strength of materials and fluid dynamics As these subjects form a basic part of an engineer s education this text is admirably suited to meet the needs of the common course in mechanical engineering prescribed in the curricula of almost all branches of engineering This revised edition includes a new chapter on Fluid Dynamics to meet the course requirement Key Features Presents an introduction to basic mechanical engineering topics required by all engineering students in their studies Includes a series of objective type question True and False Fill in the Blanks and Multiple Choice Questions with explanatory answers to help students in preparing for competitive examinations Provides a large number of solved problems culled from the latest university and competitive examination papers which help in understanding theory

Journal of the Institution of Engineers (India). ,1980 *Scientific and Technical Aerospace Reports* ,1994 Indian Books in Print ,2001 *Physics Briefs* ,1991 *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12

Applied Thermodynamics ,2021 **Engineering Thermodynamics and Fluid Mechanics (For MAKAUT), 3rd Edition** Ghosh B.B./ Chakrabarti Satyajit/ Ghosh Samir & Roy, Prokash Chandra, 2013 Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of WBUT those who find learning the concepts difficult and want to study through solved examples and those who wish to study in the traditional way Modern day engineers constantly encounter applications of thermodynamics and fluid mechanics while working with engineering designs and structures converting the power of heat and fluid into mechanical work from early steam engines to hydroelectricity and supersonic jets Equipping budding engineers with state of the art technology Engineering Thermodynamics and Fluid Mechanics provides an in depth study of the two disciplines Key Features1 Summary at the end of each chapter for quick recapitulation2 Large number of MCQs review questions and numerical problem sets for self assessment3 Five model test papers for practice4 Solution to past ten years university papers Problems and Solutions in Engineering Thermodynamics S C. Singhal, 2009-02-01 **Basic Thermodynamics** P.B. Nagaraj, 2007 This Book Titled Basic Thermodynamics Makes An Attempt To Cover The Portions Keeping In View Of The Syllabus For Iiird Semester B E Mechanical Prescribed By Visveswaraiah Technological University This Book Can Also Be Useful For Students Of Other Engineering Disciplines Like B E In Industrial Production Industrial Engineering Management Automobile Diploma In Mechanical And Ip Iem And Automobile Engineering Amie Etc The Whole Book Is Written With Precise Explanations Neat Sketches And Good Number Of Numericals The Numerical Problems From Vtu Question Papers Have Also Been Updated

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