

Third Semester B.E. Degree Examination, June/July 2016
Basic Thermodynamics

Time: 3 hrs.

Max. Marks:100

- Note:** 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of thermodynamic charts and Tables is permitted.

PART – A

- 1 a. Distinguish between :
 - i) Macroscopic and Microscopic approaches
 - ii) Diathermic and adiabatic walls
 - iii) Intensive and extensive properties
 - iv) Thermal equilibrium and Mechanical equilibrium
 - v) Quasistatic and actual process
 - vi) Point function and path function. (12 Marks)
- b. The readings t_A and t_B of two Celsius thermometers A and B agree at the ice point (0°C) and steam point (100°C), but else where they are related by the equation $t_A = L + mt_B + nt_B^2$ where L , m and n are constants, when both the thermometers are immersed in a well stirred bath, A registers 51°C , whereas B registers 50°C . Determine the reading on B when A registers 25°C . (08 Marks)
- 2 a. Starting from a common state point, draw the following process on the PV – plane and derive an expression for the work done in each case
 - i) Isobaric process
 - ii) Isothermal process
 - iii) Polytropic process. (09 Marks)
- b. Distinguish between heat and work in thermodynamics. (04 Marks)
- c. A spherical balloon has an initial diameter of 25cm and contains air at 1.2 bar. Because of heating the diameter of the balloon increases to 30cm and during the heating process the pressure is found to be proportional to the diameter. Calculate the work done during the process. (07 Marks)
- 3 a. State First Law of Thermodynamics for a process and show that energy is a property of the system. (06 Marks)
- b. Derive the steady flow energy equation for a single stream of fluid entering and a single stream of fluid leaving the control volume. (06 Marks)
- c. The following expression gives the specific heat at constant pressure of a gas that undergoes a non flow constant pressure process $c_p = \left[2.5 + \frac{60}{T + 40} \right] \text{kJ/kg K}$, where T is in $^\circ\text{C}$. The pressure during the process is maintained at 2 bar and the volume changes from 0.3 to $0.56 \text{ m}^3/\text{kg}$. The corresponding change in temperature is from 25°C to 300°C . Determine
 - i) Work done and heat added
 - ii) Change in internal energy and enthalpy. (08 Marks)
- 4 a. State and prove that Kelvin Planck and clausius statements of second Law of Thermodynamics are equivalent. (12 Marks)
- b. A heat engine working on Carnot cycle absorbs heat from three thermal reservoirs at 1000K, 800K and 600K. The engine does 10kW of network and rejects 400kJ/min of heat to a heat sink at 300K. If the heat supplied by the reservoir at 1000K is 60% of the heat supplied by the reservoir at 600K. Make calculations for the quantity of heat absorbed by each reservoir. (08 Marks)

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Foundations of Software Testing: For VTU ,2013 Elements of Civil Engineering and Engineering Mechanics Prakash M. N. Shesha, mogaveer Ganesh B., 2011-11-30 It is a basic under graduate textbook for first year students of all branches of engineering though especially designed to conform to the syllabus of visvesaraya technological university vtu The book imparts basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges inter alia emphasizing the role and responsibilities of a civil engineer in modern society It also briefly explains the broad scope of allied fields of civil engineering such as surveying transportation water resources environmental engineering geotechnical engineering foundation engineering and construction technology The engineering mechanics portion of the book is comprehensively covered in eight chapters divided into topics on forces centroid moment of inertia and friction Each chapter introduces the concepts to the reader gradually and stepwise Providing a wealth of practice examples the book em **Basic Electrical Engineering Semester-II (RTM)**

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Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) BL Theraja,2005 The primary objective of vol I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil mechanical mining textile chemical industrial environmental aerospace electronic and computer engineering both at the Degree and diploma level Based on the suggestions received from our esteemed readers both from India and abroad the scope of the book has been enlarged according to their requirements Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering collage and technical institutions in India and abroad **Machine Learning**

Interview Questions Veena A and Gowrishankar S,2024-05-30 The book aim of Machine Learning interview questions is to determine a candidate's level of knowledge and understanding of Machine Learning concepts algorithms and tools These types of interviews are often used by employers to assess an applicant's problem solving skills and technical proficiency in the field The scope of scope of this book Machine Learning interview questions can range from basic to more complex topics such as the fundamentals of supervised and unsupervised learning working with data sets and libraries building ML models and deploying and monitoring ML systems Additionally the interviewer may ask questions about the candidate's experience with specific Machine Learning frameworks data science techniques and software engineering practices Overall this book helps to assess the candidate's level of knowledge and experience in the field of Machine Learning As such it is important for the interviewer to ask questions that are relevant to the job and the candidate's qualifications as well as to provide a supportive environment where the candidate can demonstrate their skillset *Technology Road Mapping for Quantum*

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