

**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 ( $0^\circ\text{C}$ ) and steam point ( $100^\circ\text{C}$ ), but else where they are related by the equation  $t_A = L + m t_B + m t_B^2$  where  $L$ ,  $m$  and  $n$  are constants, when both the thermometers are immersed in a well stirred bath, A registers  $51^\circ\text{C}$ , whereas B registers  $50^\circ\text{C}$ . Determine the reading on B when A registers  $25^\circ\text{C}$ . (08 Marks)
2. a. Starting from a common stage 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  $25^\circ\text{C}$  to  $300^\circ\text{C}$ . 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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**Anurag Mishra,Deepak Gupta,Girija  
Chetty**



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Textbook of Mechanics of Materials Prakash M. N. Shesha,suresh G. S.,2011-09 This textbook covers the fundamental principles and applications and discusses topics such as simple and compound stresses bending moments shear forces stresses in beams deflection in beams torsion of shafts thick and thin cylinders and columns and struts

**The Drifting Stones** Anis Bari,Nilay Bipul,2023-02-09 Anis Bari is the author of two acclaimed books Dreams of The Mango People an inspirational book on how ordinary people choose to become extra ordinary and a monograph Decoding Startups which has notes on startups along with useful entrepreneurial frameworks He has received many awards including the most promising entrepreneur of the year award by TiE The Indus Entrepreneur and has been a winner of the European Union Business Challenge Born in Patna Bihar Anis went on to study engineering from PES Institute of Technology Bangalore and an MBA from the Asian Institute of Management Founded by Harvard Business School Ford Foundation Manila He is an International Rated Chess Player and a Global Shaper Alumni of the World Economic Forum Currently he is a Mason Fellow at Harvard Kennedy School

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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

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conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts engineering technologies operations and applications from the basics to future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians

*Aerodynamics 1* Mr. Rohit Manglik,2023-09-23 Introduces the principles of aerodynamics including airflow lift drag and basic aircraft structures relevant to flight performance

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*Fluid Mechanics* Anup Goel,2021-01-01 Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them It includes unlimited practical applications ranging from microscopic biological systems to automobiles airplanes and spacecraft propulsion Fluid Mechanics is the study of fluid behavior at rest and in motion It also gives information about devices used to measure flow rate pressure and velocity of fluid The book uses plain Lucid language to explain fundamentals of this subject The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics Each chapter is well supported with necessary illustrations practical examples and solved problems All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies All care has been taken to make readers comfortable in understanding the basic concepts

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