

## B.Tech III Year II Semester (R15) Supplementary Examinations December/January 2018/19

**HEAT TRANSFER**

(Mechanical Engineering)

Use of heat transfer data book is allowed.

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the expression for overall heat transfer coefficient for composite wall with two different materials subjected to convection on both sides.
  - Write different types of boundary conditions.
  - Define fin efficiency. Write expression for fin efficiency for a fin with insulated tip.
  - Write significance of Heisler charts in transient heat conduction.
  - Write conservative form of energy equation.
  - Define Prandtl number and Grashof number.
  - Write different stages in a pool boiling.
  - Counter flow heat exchanger is having higher effectiveness than the parallel flow heat exchanger. Justify.
  - What is Wien's displacement law?
  - What is shape resistance and surface resistance in a radiation heat transfer between two surfaces?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Derive the generalized three dimensional heat conduction equation in cylindrical coordinates. Reduce it into one dimensional steady state equation.

**OR**

- 3 The exposed surface ( $x = 0$ ) of a plane wall of a thermal conductivity  $K$  is subjected to microwave radiation that causes volumetric heating to vary as:

$$\dot{q}(x) = \dot{q}_0 \left[ 1 - \frac{x}{L} \right]$$

where  $\dot{q}_0$  ( $\text{W/m}^3$ ) is a constant. The boundary at  $x = L$  is perfectly insulated, while the exposed surface is maintained at a constant temperature  $T_0$ . Determine the temperature distribution  $T(x)$  in terms of  $x$ ,  $h$ ,  $K$ ,  $\dot{q}_0$  and  $T_0$ .

**UNIT – II**

- 4 Derive the one dimensional heat conduction generalized equation for a rectangular fin. Consider fin base is at a temperature  $T_b$  and convection coefficient with surroundings fluid is  $h_\infty$ . Reduce it to know the temperature distribution when the fin is assumed as long fin with infinite length.

**OR**

- 5 Carbon steel (AISI 1010) shafts of 0.12 m diameter are heat treated in a gas fired furnace whose gases are at 1250 K and provide a convection coefficient of 104  $\text{W/m}^2\text{K}$ . If the shafts enter the furnace at 305 K, how long must they remain in the furnace to achieve a centre line temperature of 810 K.

Contd. in page 2

# Jntua 2 Previous Question Papers

**Shasha Hu**



## **Jntua 2 Previous Question Papers:**

**Engineering Mathematics - I [JNTU Anantapur]** TKV Iyengar et al., This is the sixteenth edition of the book Engineering Mathematics I The earlier editions have received positive response from the teachers and the students This textbook has been written conferring to the revised syllabus R19 of first year First Semester of B Tech students of JNTU Anantapur In this edition some topics have been updated The previous question paper problems have been included at appropriate places For the benefit of the students the previous GATE questions have been included at the end of each chapter The topics has been made as simple as possible and in some instances detailed explanation *Mathematical Foundations of Computer Science /Discrete Mathematics: For JNTUK and JNTUA* Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad, Mathematical Foundations of Computer Science Discrete Mathematics caters to all students of JNTU Kakinada and JNTU Anantapur who study the subject Major topics including but not limited to Set Theory Relations Functions Algebraic Structures Combinatorics and Number Theory have been explained in detail along with the examples which are based on the latest examinations of various institutions *Engineering Physics (For 1st Year of JNTU, Anantapur)* Kumar, Vijaya K., Optics Crystal Structures And X Ray Diffraction Principles Of Quantum Mechanics And Electron Theory Semiconductors Magnetic Properties Dielectric Properties Superconductivity Laser Fiber Optics Nanotechnology Review Questions Multiple Choice Question Pharmaceutical Biotechnology Sreenivasulu V./ Jayaveera K.N. & Adinarayana K., In this book the theory is explained in simplest way and finding the numerical solutions for several methods has been treated in detail and illustrated by large number of numerical examples and questions from universities papers **Engineering Mathematics Volume - II (For 2nd Year of JNTU, Anantapur)** Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Unit I 1 Real And Complex Matrices And Linear System Of Equations 2 Eigen Values And Eigen Vectors 3 Quadratic Forms Unit Ii 4 Solution Of Algebraic And Transcendental Equations 5 Interpolation 6 Curve Fitting Unit Iii 7 Numerical Differentiation And Integration 8 Numerical Solution Of Ordinary Differential Equations Unit Iv 9 Fourier Series 10 Fourier Transforms Unit V 11 Partial Differential Equations **Engineering Physics** M N Avadhanulu & TVS Arun Murthy, The book Engineering Physics is designed for the First Year Engineering students at Jawaharlal Nehru Technological University Kakinada Vizianagaram Anantapur and other universities in Andhra Pradesh The book is written with the singular objective of providing the students with a distinct source material as per the syllabus The book covers important topics such as Interference Diffraction Polarization Crystallography X ray Diffraction Dielectric Materials Magnetic Materials Quantum Mechanics Free Electron Theory Semiconductors Lasers Fibre Optics etc Throughout the book attention is given to the proper presentation It has all the features essential to arouse interest and involve students in the subject **ADVANCED BUILDING MATERIALS** Shashi Kumar V N,A Siva Krishna,Jayashri Chetan Dhake,Dr.G.Sree Lakshmi Devi,Engr Anwar Sadath M, This book deals with in order to maximise building efficiency in both new and existing structures a comprehensive review of the most recent

developments in construction materials and building design is presented in Advanced Materials and Nanotechnology to Improve Energy Efficiency and Environmental Performance The following chapters are included in this book Thermoplastic insulating materials sustainable building materials advanced materials building materials and the environment introduction overall material trends impact of green walls on buildings and conclusion

**Innovations in the Industrial Internet of Things (IIoT) and Smart Factory** Goundar, Sam,Avanija, J.,Sunitha, Gurram,Madhavi, K. Reddy,Bhushan, S.

Bharath,2021-01-22 Industrial internet of things IIoT is changing the face of industry by completely redefining the way stakeholders enterprises and machines connect and interact with each other in the industrial digital ecosystem Smart and connected factories in which all the machinery transmits real time data enable industrial data analytics for improving operational efficiency productivity and industrial processes thus creating new business opportunities asset utilization and connected services IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems Innovations in the Industrial Internet of Things IIoT and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency rationalization automation and maintenance While highlighting topics such as artificial intelligence cyber security and data collection this book is ideally designed for engineers manufacturers industrialists managers IT consultants practitioners students researchers and industrial industry professionals

*Engineering Physics* S. Mani Naidu,2009 Intelligent Human Computer Interaction Madhusudan Singh,Dae-Ki Kang,Jong-Ha Lee,Uma Shanker Tiwary,Dhananjay Singh,Wan-Young Chung,2021-02-05 The two volume set LNCS 12615 12616 constitutes the refereed proceedings of the 12th International Conference on Intelligent Human Computer Interaction IHCI 2020 which took place in Daegu South Korea during November 24 26 2020 The 75 full and 18 short papers included in these proceedings were carefully reviewed and selected from a total of 185 submissions The papers were organized in topical sections named cognitive modeling and system biomedical signal processing and complex problem solving natural language speech voice and study algorithm and related applications crowd sourcing and information analysis intelligent usability and test system assistive living image processing and deep learning and human centered AI applications *Pharmaceutical Microbiology* Reddy, Venkateswara A./ Jayaveera K.N. & Sreenivasulu V., This book covers the syllabi of all Indian universities and competitive exams GATE GPAT The book covers the major courses in Indian and abroad degrees such as B Pharm M Pharm B Tech M Tech M Sc Microbiology Biotechnology Biochemistry Food Microbiology Pathology and other Life Sciences and B Sc Life Sciences Green Artificial Intelligence and Industrial Applications (G-AIIA) Sarat Chandra Nayak,Satchidananda Dehuri,Sung-Bae Cho,Margarita Favorskaya,2025-10-01 This proceeding book explores emerging field of Green AI which emphasizes innovations to make AI more environmentally sustainable Green AI seeks to mitigate the environmental impact of AI technologies by streamlining algorithms enhancing hardware efficiency and adopting eco friendly

data management practices all while maintaining the high performance that modern AI systems promise It addresses the challenges and opportunities associated with reducing AI s energy consumption lowering carbon emissions and promoting ethical and responsible AI practices The book insights into the development of energy efficient algorithms by design Green in AI as well as algorithms specifically created to tackle environmental challenges Green by AI It highlights the potential of Green AI in fostering a more sustainable technological future which inspires researchers engineers and innovators to pursue ideas and solutions that balance technological advancement with environmental stewardship

**An Update on SARS-CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy** Pankaj Kumar Singh,Dharmendra Kumar Khatri,Shashi Bala Singh,Anitha Sriram,2022-08-31 This update on SARS CoV 2 focuses on basic knowledge about the virus and COVID 19 treatment Chapters present basic information about the disease and its treatment The virology epidemiology etiology and damage response framework of SARS CoV 2 are also discussed in detail The book also covers recent topics of interest to pharmacology scholars such as the immunopathogenesis of SARS CoV2 nanotechnology repurposed drug treatments COVID 19 vaccines and phytomedicine for COVID 19 therapeutics Readers in pharmacology virology and medicine will find the book a simple yet informative update on SARS CoV 2 and COVID 19 treatment

**A TEXT BOOK OF GENERAL AND DISPENSING PHARMACY** K. Venkateswarlu,N DEVANNA, *A Textbook of Pharmacognosy and Phytochemistry* Kumar G.S. & Jayaveera K.N.,2014-03 Importance And Scope Of Medicinal Plants 1 2 Classification Of Crude Drugs 6 3 Drug Adulteration 16 4 Biogenesis Of Phyto Pharmaceuticals And Basic Metabolic Pathways 45 5 Chemical Nature Of Phytoconstituents 62 6 Extraction Techniques 74 7 Industrial Production And Analysis Of Phytoconstituents 79 8 Marine Pharmacognosy 99 9 Indigenous System Of Medicines 107 10 Plant Tissue Culture 130 11 Pharmaceutical Enzymes 136 12 Primary Metabolites 141 12 1 Carbohydrates 141 12 2 Proteins 166 12 3 Lipids 175 13 Secondary Metabolites 207 13 1 Alkaloids 207 13 2 Glycosides 228 13 3 Tannins 245 13 4 Terpenoids 252 13 5 Resins And Resin Combinations 262 14 Plant Fibres 267 15 Natural Dyes 273 Question Papers

**Optimization of Sustainable Enzymes Production** J Satya Eswari,Nisha Suryawanshi,2022-11-29 This book is designed as a reference book and presents a systematic approach to analyze evolutionary and nature inspired population based search algorithms Beginning with an introduction to optimization methods and algorithms and various enzymes the book then moves on to provide a unified framework of process optimization for enzymes with various algorithms The book presents current research on various applications of machine learning and discusses optimization techniques to solve real life problems The book compiles the different machine learning models for optimization of process parameters for production of industrially important enzymes The production and optimization of various enzymes produced by different microorganisms are elaborated in the book It discusses the optimization methods that help minimize the error in developing patterns and classifications which further helps improve prediction and decision making Covers the best performing methods and

approaches for optimization sustainable enzymes production with AI integration in a real time environment Featuring valuable insights the book helps readers explore new avenues leading towards multidisciplinary research discussions The book is aimed primarily at advanced undergraduates and graduates studying machine learning data science and industrial biotechnology Researchers and professionals will also find this book useful **A Textbook Of Pharmaceutics Technology** Dr. Niranjan Panda, Dr. V. Kiran Kumar, Dr. V. Sreenivasulu, Prof. (Dr.) Nilima Shukla, 2023-03-02 Graduates in Pharmaceutical Technology are needed worldwide from the development of medications through their manufacture and packaging There are excellent employment options in every area of the pharmaceutical industry both in India and overseas A Pharmaceutical Technology graduate is required at several stages of drug development including drug research validation delivery systems scaling up manufacturing process etc A graduate of the Pharmaceutical technology program has the ability depending on their level of expertise to work in the disciplines of chemical engineering chemistry bioprocesses engineering or education in addition to the pharmaceutical industry The potential in this sector is quite vast since India is one of leading producers of pharmaceuticals While it is possible to get work in other countries it is preferable to look for work in India A Pharmaceutical Technology Engineer may readily find work in research and development labs where their responsibilities include the design of quality pharmaceuticals as well as the manufacture and inspection of drugs The scope is quite vast and is expanding on an annual basis Every industry is evolving more quickly than ever thanks to emerging technology The pharmaceutical technology industry has also benefited from this expanding to new heights These next trends cover a wide range of topics including artificial intelligence automation and more The trends also indicate that new work possibilities are being created in the industry of the pharmaceutical technology The technology has offered society several boons while lessening the man's work Revolutionizing AI and Robotics in the Oil and Gas Industry Abdullayev, Vugar, Khang, Alex, 2025-04-23 The oil and gas industry remains the main source of energy and is one of the valuable areas of the energy market In this sector the replacement of human labor by technology is particularly important for the implementation of all stages With the application of smart technology it was possible to replace not only the physical aspect of human labor but also a number of mental activities The integration of smart technology such as artificial intelligence AI and robotics has made it possible to automate processes such as design risk assessment forecasting ensuring safety and optimizing production Revolutionizing AI and Robotics in the Oil and Gas Industry addresses all aspects and principles of the joint integration of AI and Robotics for process automation in the oil and gas industry It discusses the modern environment created by the integration of digital technologies into this field the extent to which progress has been made with the automation of processes through AI and the consequences of the application of robotics and automation to the industry Covering topics such as leak detection petroleum engineering and oil reservoir behavior this book is an excellent resource for industry professionals engineers computer scientists professionals researchers scholars academicians and more **A Textbook Of**

**Pharmacovigilance** Dr. Kanchana N. Dussa, Dr. A. Venkateshwar Reddy, Dr. Niranjan Panda, Dr. Sobia Noor, 2023-01-31

Quintessence of Pharmacovigilance refers to the research and practises involved in the identification evaluation comprehension and avoidance of unfavourable effects or the any other potential drug related issues The most frequent way to gather safety data is through the spontaneous reporting of adverse occurrences and adverse medication responses A substance is equal to a danger when consumed Consumption of medications is only acceptable when the benefits outweigh the risks Therefore the benefit to risk ratio of a medicine determines whether it should be used or not Due to the individualization of pharmaceuticals for each patient it is up to the doctor s clinical judgement to choose what will be best for the patient Observations pertaining to pharmacovigilance can also be used to determine the risk connected to the medicine Studies on pharmacovigilance provide information on potential dangers connected to a certain medication Even drugs have the potential to cause unpleasant effects whether intentional or not The only scenario in which this generalisation does not apply is when a medication is prescribed because the body lacks certain nutrients such as certain vitamins or minerals As the investigation of potential negative effects of medications this forms the core of pharmacovigilance      *Mapping Human Data and Behavior With the Internet of Behavior (IoB)* Chhabra, Gunjan, Singh, Tanu, Kumar, Manoj, 2025-01-22 The Internet of Behavior IoB is reshaping industries by providing deeper insights into human actions preferences and decision making patterns By analyzing data from wearables online interactions and smart devices IoB enables organizations to deliver highly personalized services improve public health strategies and optimize urban environments This convergence of technology and behavioral science holds the potential to drive innovation across sectors enhancing user experiences and operational efficiency At the same time the rapid growth of IoB raises important questions about data privacy security and ethical responsibility highlighting the need for careful governance As IoB continues to evolve its impact on society will be profound influencing everything from business practices to policy development Mapping Human Data and Behavior With the Internet of Behavior IoB provides a comprehensive and practical resource to understanding analyzing and leveraging the IoB It provides the knowledge and tools necessary to harness the transformative potential of IoB technologies while addressing the ethical and privacy considerations inherent in this field Covering topics such as artificial intelligence AI neural networks and performance evaluation this book is an excellent resource for researchers academicians students data scientists and analysts IoT professionals healthcare professionals and more

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### **Table of Contents Jntua 2 Previous Question Papers**

1. Understanding the eBook Jntua 2 Previous Question Papers
  - The Rise of Digital Reading Jntua 2 Previous Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Jntua 2 Previous Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jntua 2 Previous Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jntua 2 Previous Question Papers
  - Personalized Recommendations
  - Jntua 2 Previous Question Papers User Reviews and Ratings
  - Jntua 2 Previous Question Papers and Bestseller Lists
5. Accessing Jntua 2 Previous Question Papers Free and Paid eBooks



- Jntua 2 Previous Question Papers Public Domain eBooks
- Jntua 2 Previous Question Papers eBook Subscription Services
- Jntua 2 Previous Question Papers Budget-Friendly Options
- 6. Navigating Jntua 2 Previous Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Jntua 2 Previous Question Papers Compatibility with Devices
  - Jntua 2 Previous Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jntua 2 Previous Question Papers
  - Highlighting and Note-Taking Jntua 2 Previous Question Papers
  - Interactive Elements Jntua 2 Previous Question Papers
- 8. Staying Engaged with Jntua 2 Previous Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jntua 2 Previous Question Papers
- 9. Balancing eBooks and Physical Books Jntua 2 Previous Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jntua 2 Previous Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jntua 2 Previous Question Papers
  - Setting Reading Goals Jntua 2 Previous Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jntua 2 Previous Question Papers
  - Fact-Checking eBook Content of Jntua 2 Previous Question Papers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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