

Code No: 118CJ

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, September - 2020

INTRODUCTION TO NANOTECHNOLOGY

(Electrical and Electronics Engineering)

Time: 2 hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Can Small Things Make a Big Difference? Justify this statement with valid examples.
b) How you classify nanomaterials? Discuss briefly. [8+7]
- 2.a) Define "surface energy"? Explain how the surface energy is different for bulk and nano materials.
b) What are "Fascinating Nanostructures"? Discuss briefly. [8+7]
- 3.a) What is imperfection? Explain any two types of imperfections in crystalline materials with examples.
b) Discuss briefly the elastic properties for nanomaterials. [8+7]
- 4.a) What do you mean by hot and cold iso-static pressing techniques? Where do we need? Explain briefly the importance of these techniques.
b) Explain briefly the working principle of spark plasma sintering. [8+7]
- 5.a) What is full width at half maximum (FWHM)? Discuss briefly the crystallite size determination of a given nanomaterial from Debye-Scherrer formula.
b) What do you mean by Nanoindentation? Explain briefly. [8+7]
- 6.a) Explain briefly the working principle of Small Angle X-ray scattering (SAXS).
b) What do you mean by Field Ion Microscopy (FIM)? In what way this characterization tool helps to analyze the nanomaterials? [8+7]
- 7.a) Write the challenges and future aspects of Nano-electronics.
b) Discuss briefly the usage of nanotechnology concepts in Agriculture. [8+7]
8. Write short notes on:
a) Micro electromechanical systems (MEMS)
b) Nano electromechanical systems (NEMS). [8+7]

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Nanotechnology Question Paper

AN Whitehead



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Nanotechnology Toby Shelley,2006-04 Buckyballs Quantum dots Golden triangles Organic light emitting diodes Welcome to the world of nanotechnology the engineering of new materials and new products the use of new manufacturing techniques all exploiting properties possessed at the infinitesimally small or nano scale Virtually every large corporation now has a nanotechnology R D operation The US government is putting in serious investment Huge promises are held out in the fields of medicine energy computing And more ominously the Pentagon is exploring nano applications in a new generation of hi tech weaponry But as this book makes clear There is little public debate even among consumer groups or trade unions about the ways in which nanotechnologies are creeping into our lives as consumers and workers Regulatory agencies take no account of scale when assessing the safety of new products and there is no regulatory framework for nanotechnology even in industrialized countries Little research is going on into the health and environmental consequences and safety of nano materials This book explains the fast moving world of the new technology and who controls it It explores the potential consequences the upsides as well as the downsides for individuals the environment and relations between the powers Nanotechnology could bridge or widen the gap between developing and industrialised countries that is a political decision

that civil society must address **Nanotechnology** Deb Bennett-Woods, 2018-10-03 From manufacturing to medicine nanotechnology implies revolutionary change However the sweeping changes wrought by a technological advance of this magnitude are likely to come at a price that includes unforeseen environmental impact disruptions in industry displacement of workers and deeply controversial applications of the technology and its offspring Nanotechnology Ethics and Society provides a conceptually clear and straightforward ethical framework in which pragmatic questions can be raised regarding the impact of nano related technologies The book focuses on general issues related to nanotechnology in nanomaterials and manufacturing as well as impacts on the marketplace and workforce After an overview of the nanotechnology revolution the text illustrates key concepts in the assessment model and then applies this model to a case study related to human enhancement technologies It also offers an ethical agenda for addressing the challenges of nanotechnology Nanotechnology promises to be the next great technological revolution This important volume provides a framework for deciding how best to take advantage of nanotechnology opportunities while also minimizing the harm of negative effects **Nanotechnology** Ben Rogers, Jesse Adams, Sumita Pennathur, 2013-03-20 Winner of an Outstanding Academic Title Award from CHOICE Magazine Transistors using one electron at a time Seemingly transparent sunscreens made with titanium dioxide particles that block harmful UV rays Nanometer sized specks of gold that change color to red and melt at 750 C instead of 1 064 C Nanotechnology finds the unique properties of thin *Fundamentals of Nanotechnology* Mr. Rohit Manglik, 2024-07-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Nanotechnology* Manasi Karkare, 2013-12-30 Potential of Nanotechnology is immense and encompasses virtually every field of life Technologists and researchers all across the globe have realized this and call it the Technology of the Future The book is intended to develop interest amongst students of all branches of Engineering and incumbent researchers so that they get to know fundamentals of the subject The book deals with all the aspects of nanotechnology and its fundamentals and applications i e Nanotechnology tools and techniques nanomaterials nanocomputers nanocomposites risks related with the use of nanotechnology and its relation with the environment Applications of nanotechnology in textiles solar power electronics space explorations and in communication find a reasonable place in the book **The Nanotechnology Challenge** David A. Dana, 2011-11-14 Nanotechnology is the wave of the future and has already been incorporated into everything from toothpaste to socks to military equipment The safety of nanotechnology for human health and the environment is a great unknown however and no legal system in the world has yet devised a way to reasonably address the uncertain risks of nanotechnology To do so will require creating new legal institutions This volume of essays by leading law scholars and social and physical scientists offers a range of views as to how such institutions should be formed It is essential reading for anyone

who may wonder how we can continue to innovate technologically in a way that both delivers the benefits and sustains human health and the environment

Emerging Conceptual, Ethical and Policy Issues in Bionanotechnology Fabrice Jotterand, 2008-09-20 Nanobiotechnology is the convergence of existing and new biotechnology with the 1 ability to manipulate matter at or near the molecular level This ability to manipulate matter on a scale of 100 nanometers nm or less is what constitutes the nanotechnology revolution occurring today the potentially vast economic and social implications of which are yet to be fully understood Royal Society 2004 The most immediate way to understand the implications of nanobiotechnology for ethics is to consider the real life concerns of communities that are mobilizing within civil society The conflicts and ethical debates surrounding nanotechnology will almost by definition emerge on the fault lines between different civil society actors researchers and financial interests associated with nanobiotechnology as well as potentially government regulators These fault lines are all reflected within the concerns as expressed d cursively of the communities mobilizing This chapter will explore converging d courses regarding converging technologies Converging Technologies CT are already a familiar theme in the next gene tion of biotechnology nanotechnology pharmacogenomics and proteomics research 2 and development Nanobiotechnology means that previously separate disciplines IT physics chemistry and biology are merging and converging to create new applications and even new life forms through converged technological platforms Schummer 2004 and Glimell and Fogelberg 2003 p 43 note the predominance of interdisciplinarity as a core theme of nano discourse

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Nanostructures and Nanotechnology Douglas Natelson, 2015-06-18 A carefully developed textbook focusing on the fundamental principles of nanoscale science and nanotechnology

Handbook of Nanoscience, Engineering, and Technology William A. Goddard III, Donald Brenner, Sergey Edward Lyshevski, Gerald J Iafrate, 2007-05-03 The ability to study and manipulate matter at the nanoscale is the defining feature of 21st century science The first edition of the standard setting Handbook of Nanoscience Engineering and Technology saw the field through its infancy Reassembling the preeminent team of leading scientists and researchers from all areas of nanoscience and nanote

Eco-friendly Polymer Nanocomposites Vijay Kumar Thakur, Manju Kumari Thakur, 2015-07-20 This book contains precisely referenced chapters emphasizing environment friendly polymer nanocomposites with basic fundamentals practicality and alternatives to traditional nanocomposites through detailed reviews of different environmental friendly materials procured from different resources their synthesis and applications using alternative green approaches The book aims at explaining basics of eco friendly polymer nanocomposites from different natural resources and their chemistry along with practical applications

which present a future direction in the biomedical pharmaceutical and automotive industry The book attempts to present emerging economic and environmentally friendly polymer nanocomposites that are free from side effects studied in the traditional nanocomposites This book is the outcome of contributions by many experts in the field from different disciplines with various backgrounds and expertises This book will appeal to researchers as well as students from different disciplines The content includes industrial applications and will fill the gap between the research works in laboratory to practical applications in related industries

Engineering Physics Mr. Rohit Manglik, 2024-09-24 Explores physical principles in engineering including mechanics optics and thermodynamics Covers applications in material science electronics and engineering design

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Nanoparticles and Occupational Health Andrew D. Maynard, David Y.H. Pui, 2007-04-06 This volume a reprint from a special issue of the Journal of Nanoparticle Research draws on work presented at The Second International Symposium on Nanotechnology and Occupational Health held in Minnesota in 2005 It presents an interdisciplinary approach to nanotechnology and occupational health and offers an overview of recent developments toward assessment and management of hazards and risks associated with engineered nanomaterials

Nanotechnology For Dummies Richard D. Booker, Earl Boysen, 2011-02-23 This title demystifies the topic for investors business executives and anyone interested in how molecule sized machines and processes can transform our lives Along with dispelling common myths it covers nanotechnology s origins how it will affect various industries and the limitations it can overcome This handy book also presents numerous applications such as scratch proof glass corrosion resistant paints stain free clothing glare reducing eyeglass coatings drug delivery systems medical diagnostic tools burn and wound dressings sugar cube sized computers mini portable power generators even longer lasting tennis balls and more Nanotechnology is the science of matter at the scale of one billionth of a meter or 1 75 000th the size of a human hair Written in the accessible humorous For Dummies style this book demystifies nanotechnology for investors business people and anyone else interested in how molecule sized machines and processes will soon transform our lives Investment in nanotechnology is exploding with 3 7 billion in nanotechnology R D spending authorized by the U S government in 2003 and international investment reported at over 2 billion

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