Code No: 118CJ

R13

#### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, September - 2020

# INTRODUCTION TO NANOTECHNOLOGY

Timer 2 hours

(Electrical and Electronics Engineering)

Max. Marks: 75

#### Answer any Five Questions All Questions Carry Equal Marks

	05	
1.a)	Can Small Things Make a Big Difference? Justify this statement with valid exam	ples.
ъ)	How you classify manounterials? Discuss briefly.	[8+7]
2.a)	Define "surface energy"? Explain how the surface energy is different for bulk materials.	and nano
b)	What are "Fascinating Nanostructures"? Discuss briefly.	[8+7]
3.a)	What is imperfection? Explain any two types of imperfections in crystalline ma- examples	terials with
b)	Discuss briefly the elastic properties for nemomaterials.	[8+7]
4.a)	What do you mean by hot and cold iso-static pressing techniques? Where do Explain briefly the importance of these techniques.	we need?
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 crys determination of a given nanomaterial from Debye-Schetren formula.	tallite size
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 characteristic	zation 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.	18+ D
S.	Write short notes on:	
		The state of the s

a) Micro electromechanical systems (MEMS)
b) Nano electromechanical systems (NEMS).

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Environment, Technology, and Standards, 2006 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 Handbook for the Historiography of Science Mauro L. Condé, Marlon Salomon, 2023-09-30 This book aims to perform a critical and broad assessment of the historiography of science produced from the late nineteenth century to the early twenty first century It presents its main authors concepts ideas conceptions and schools It also analyzes the historical circumstances of the rise of the discipline history of science and the relations of the historiography of science with related areas These chapters do not understand the historiography of science as a mere description or record of the history of science Instead they understand the historiography of science from the epistemological criteria and choices that guided the writing of the history of science in its different contexts In other words more than describing the record of the various possibilities of historiographical approaches to science the chapters carry out an epistemological reflection to assess the bases possibilities scope and limits of different historiographical conceptions authors and traditions that have established the writing of the history of science This book can be conceived as a reference work not only for professional historians and philosophers but also for academics from different backgrounds who are initiating themselves in the universe of history and philosophy of science be they scientists from different fields or young researchers from different backgrounds who want to The National Nanotechnology Investment United States. Congress. start studying the history and philosophy of science Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2013 Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing Roger Lee, 2022-01-03 This book presents scientific results of the 22nd ACIS International Fall Virtual Conference on Software Engineering Artificial

Intelligence Networking and Parallel Distributed Computing SNPD2021 Fall which was held on November 24 26 2021 at Taichung Taiwan The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way Research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best papers from those papers accepted for presentation at the conference The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review From this second round of review 13 of most promising papers are then published in this Springer SCI book and not the conference proceedings We impatiently await the important contributions that we know these authors will bring to the field of computer and information science CBSE Most Likely Question Bank Chemistry Class 12 (2022 Exam) - Categorywise & Chapterwise with New Objective Paper Pattern, Reduced Syllabus Gurukul, 2021-06-21 Benefit from Chapter Wise Section wise Question Bank Series for Class 12 CBSE Board Examinations 2022 with our Most Likely CBSE Question Bank for Chemistry Subject Wise books designed to prepare and practice effectively each subject at a time Our Most Probable Question Bank highlights the knowledge based and skill based questions covering the entire syllabus including Definitions MCQs IUPAC Nomenclature Very Short Questions Short Answers Reasoning Based Questions Long Answers I Long Answers II Named Reactions Laws Structure or Diagram Based Questions Differentiate Between or Derivatives Reacction Baded Questions Mechanism Conversions Case Based Questions etc Our handbook will help you study and practice well at home How can you benefit from Gurukul Most Likely CBSE Chemistry Question Bank for 12th Class Our handbook is strictly based on the latest syllabus prescribed by the council and is categorized chapterwise topicwise to provide in depth knowledge of different concept questions and their weightage to prepare you for Class 12th CBSE Board Examinations 2022 1 Focussed on New Objective Paper Pattern Questions 2 Includes Solved Board Exam Paper 2020 for both Delhi and outside Delhi Set 1 3 and Toppers Answers 2019 3 Previous Years Board Question Papers Incorporated 4 Visual Interpretation as per latest CBSE Syllabus 5 Exam Oriented Effective Study Material provided for Self Study 6 Chapter Summary for Easy Quick Revision 7 Having frequently asked questions from Compartment Paper Foreign Paper and latest Board Paper 8 Follows the Standard Marking Scheme of CBSE Board Our question bank also consists of numerous tips and tools to improve study techniques for any exam paper Students can create vision boards to establish study schedules and maintain study logs to measure their progress With the help of our handbook students can also identify patterns in question types and structures allowing them to cultivate more efficient answering methods Our book can also help in providing a comprehensive overview of important topics in each subject making it easier for students to solve for Errorless 10 Year-wise Odisha OPSC/ OAS Civil Services General Studies Prelims Previous Year the exams

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