

Code No: 118CJ

R13

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

LL Leslie



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Table of Contents Nanotechnology Question Paper

1. Understanding the eBook Nanotechnology Question Paper
 - The Rise of Digital Reading Nanotechnology Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Nanotechnology Question Paper
 - 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 a Nanotechnology Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nanotechnology Question Paper
 - Personalized Recommendations
 - Nanotechnology Question Paper User Reviews and Ratings
 - Nanotechnology Question Paper and Bestseller Lists

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