

Visvesvaraya Technological University, Belagavi.
Model Question Paper-I with effect from 2022-23(CBCS Scheme)

First/Second Semester B.E. Degree Examination

USN:

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Introduction to Nanotechnology

TIME:03 Hours

Max.Marks:100

Note: Answer any **FIVE** full questions, choosing at least **ONE** question from each **Module**.

QNo.	Module– 1		Marks
Q1	a	Describe the Sputtering technique for the preparation of nanomaterials. Mention its advantages and drawbacks.	8
	b	Write a note on a) surface to volume ratio b) precipitation for the synthesis of nanomaterials.	8
	c	Define the terms i) Nanomaterials ii) Quantum confinement	4
OR			
Q2	a	Explain how optical, electrical and catalytical properties vary from bulk to nanomaterials.	8
	b	Explain the steps involved in synthesis of silica nanoparticles by taking sol gel method.	8
	c	Explain the electron confinement in OD, 1D, 2D, 3D systems with examples.	4
Module– 2			
Q3	a	Explain the basic principle, working and instrumentation of scanning electron microscope with diagram.	8
	b	Explain the basic principle, working and instrumentation of Scanning Tunnelling Microscope (STM).	8
	c	Explain the basic principles of working of X-ray diffraction	4
OR			
Q4	a	Explain the contact, no-contact and tapping imaging modes of the Atomic Force Microscope (AFM). Mention any four differences between STM & AFM.	8
	b	Explain the working and instrumentation of the IR spectroscopy. Mention its application in the determination of functional group.	8
	c	In a X-ray diffraction experiment peak width half maxima (FWHM) is 0.6 ° and its Bragg angle (θ) is 24°. Calculate the crystallite size using Scherrer equation. Given wavelength used in X-ray diffraction experiment is 1.54 Å. Given, $k = 0.94$	4
Module– 3			
	a	Explain the synthesis of graphene by chemical vapor deposition. Mention	8

Nanotechnology Question Paper

Ian Pickup



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Parliamentary Debates (Hansard). Australia. Parliament. Senate,2003 *Nanoengineering: Fabrication, Properties, Optics, and Devices* ,2006 The Economist ,2007 **Progress in Polymers in Concrete** Ru Wang,Zheng Hong Yang,2013-04-24 Selected peer reviewed papers from the 14th International Congress on Polymers in Concrete ICPI 2013 April 17 20 2013 Shanghai China **Australian Journal of Professional and Applied Ethics** ,2001 **International Journal of Contemporary Sociology** ,2005 **California Environmental Law Reporter** ,2005 Treatise on Environmental Law Frank P. Grad,1973 **Journal of the Patent and Trademark Office Society** ,2006 **Cyber Reader** Neil Spiller,2002-03-19 Cyber Reader is an anthology of extracts from key texts relating to the theme of cyberspace the virtual communicative space created by digital technologies Approaching the subject from a variety of angles including science fiction this book reflects the multidisciplinary basis of cyberspace and illustrates how different disciplines can inform one another Over 40 texts are presented in chronological order beginning with key precursors to cyberspace theory as we know it today Writings by early theoreticians such as Charles Babbage and Alan Turing and authors such as E M Forster help to give a historical perspective to the subject while texts on theoretical developments show the parallels between real and imagined worlds Each extract is prefaced by a short introduction by editor Neil Spiller explaining crucial themes and terms and providing cross references to related texts An extensive bibliography enables the reader to pursue particular strands of study that strike their interest Cyber Reader is an essential source book introducing students and researchers to cyberspatial theory and practice It will help the reader understand the wealth of opportunities both practical and theoretical that cyberspace engenders and enable them to chart its impact on many disciplines OHS Canada ,2004 Index of Conference Proceedings British Library. Document Supply Centre,2003 The Hindu Index ,2006

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