

Seat No.	
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**T.Y. B.Sc. (Semester – III) Examination, 2013**  
**PHYSICS (Paper – III)**  
**PH : 333 : Classical Mechanics**  
**(2008 Pattern) (New)**

Time : 2 Hours

Max. Marks : 40

- N.B. :** 1) *All questions are compulsory.*  
 2) *Figures to the right indicate full marks.*  
 3) *Use of logtables and calculators is allowed.*

1. Attempt **all** of the following (1 mark each) : **10**
- a) What is conservative force ?
  - b) Define centre of mass of the system of particles.
  - c) Name the parameter that determine the nature of orbit.
  - d) What is the effect of impact parameter on scattering angle ?
  - e) What is central force ? Give one example.
  - f) What do you mean by differential cross-section ?
  - g) Determine the number of degrees of freedom for the particle moving on the circumference of a circle.
  - h) What do you mean by configuration space ?
  - i) What is inertial frame of reference ?
  - j) State the principle of Galilean invariance.
2. Attempt **any two** of the following :
- a) Discuss the motion of a charged particle under a constant magnetic field. **5**
  - b) What is elastic scattering ? Describe two body scattering in Lab and CM systems. **5**
  - c) Explain the effect of coriolis force on cyclone formation. **5**

# **Tybsc Physics Sem 5 Question Paper**

**Frederick George Mann, Bernard  
Charles Saunders**



# Tybsc Physics Sem 5 Question Paper

*Genetics and Biotechnology* Ulrich Kück, 2013-03-09 Mycology the study of fungi originated as a subdiscipline of botany and was a descriptive discipline largely neglected as an experimental science until the early years of this century A seminal paper by Blakeslee in 1904 provided evidence for self incompatibility termed heterothallism and stimulated interest in studies related to the control of sexual reproduction in fungi by mating type specificities Soon to follow was the demonstration that sexually reproducing fungi exhibit Mendelian inheritance and that it was possible to conduct formal genetic analysis with fungi The names Burgeff Kniep and Lindegren are all associated with this early period of fungal genetics research These studies and the discovery of penicillin by Fleming who shared a Nobel Prize in 1945 provided further impetus for experimental research with fungi Thus began a period of interest in mutation induction and analysis of mutants for bio chemical traits Such fundamental research conducted largely with *Neurospora crassa* led to the one gene one enzyme hypothesis and to a second Nobel Prize for fungal research awarded to Beadle and Tatum in 1958 Fundamental research in biochemical genetics was extended to other fungi especially to *Saccharomyces cerevisiae* and by the mid 1960s fungal systems were much favored for studies in eukaryotic molecular biology and were soon able to compete with bacterial systems in the molecular arena

**The Physics of Quantum Mechanics** James Binney, David Skinner, 2013-12 This title gives students a good understanding of how quantum mechanics describes the material world The text stresses the continuity between the quantum world and the classical world which is merely an approximation to the quantum world College Practical Chemistry, 2010 **B.Sc. Practical Physics** CL Arora, 2001 B Sc Practical Physics **Physics for Degree Students for B.Sc. 3rd Year** Arora C.L. & Hemne P.S., 2015 Section I Relativity Section II Quantum Mechanics Section III Atomic Physics Section IV Molecular Physics Section V Nuclear Physics Section VI Solid State Physics Section VII Solid State Devices Section VIII Electronics Index *Essentials of Physical Chemistry 28th Edition* Bahl Arun/ Bahl B.S. & Tuli

G.D., 2022 *Essentials of Physical Chemistry* is a classic textbook on the subject explaining fundamentals concepts with discussions illustrations and exercises With clear explanation systematic presentation and scientific accuracy the book not only helps the students clear misconceptions about the basic concepts but also enhances students ability to analyse and systematically solve problems This bestseller is primarily designed for B Sc students and would equally be useful for the aspirants of medical and engineering entrance examinations Guide to LaTeX Helmut Kopka, Patrick W. Daly, 2003-11-25 Published Nov 25 2003 by Addison Wesley Professional Part of the Tools and Techniques for Computer Typesetting series The series editor may be contacted at frank.mittelbach@latex-project.org LaTeX is the text preparation system of choice for scientists and academics and is especially useful for typesetting technical materials This popular book shows you how to begin using LaTeX to create high quality documents The book also serves as a handy reference for all LaTeX users In this

completely revised edition the authors cover the LaTeX2 standard and offer more details examples exercises tips and tricks They go beyond the core installation to describe the key contributed packages that have become essential to LaTeX processing Inside you will find Complete coverage of LaTeX fundamentals including how to input text symbols and mathematics how to produce lists and tables how to include graphics and color and how to organize and customize documents Discussion of more advanced concepts such as bibliographical databases and BibTeX math extensions with AMS LaTeX drawing slides and letters Helpful appendices on installation error messages creating packages using LaTeX with HTML and XML and fonts An extensive alphabetized listing of commands and their uses New to this edition More emphasis on LaTeX as a markup language that separates content and form consistent with the essence of XML Detailed discussions of contributed packages alongside relevant standard topics In depth information on PDF output including extensive coverage of how to use the hyperref package to create links bookmarks and active buttons As did the three best selling editions that preceded it Guide to LaTeX Fourth Edition will prove indispensable to anyone wishing to gain the benefits of LaTeX The accompanying CD ROM is part of the TeX Live set distributed by TeX Users Groups containing a full LaTeX installation for Windows MacOSX and Linux as well as many extensions including those discussed in the book 0321173856B10162003

*Embryology of Angiosperms* B. M. Johri, 2012-12-06 Thirty four years have elapsed since the publication of the late Professor P Maheshwari's text *An Introduction to the Embryology of Angiosperms* a work which for many years served as an invaluable guide for students and a rich source book for research workers Various texts dealing with sections of the broad spectrum of topics encompassed by Maheshwari in his book have appeared in the interim but a compendious modern work dealing with the whole field has been lacking This present volume splendidly meets the need and it is altogether fitting that Professor B M Johri long an associate and close colleague of Professor Maheshwari and himself a prolific contributor to the subject should have undertaken the task of editing it When Maheshwari wrote it was still feasible for one author to handle the subject but today even someone with his fine breadth of vision and depth of understanding could not alone do it justice So the effort has to be a collaborative one and Professor Johri's achievement has been to bring together a team of authoritative collaborators assign them their responsibilities and put them to work to produce a text as integrated in its treatment as the diversity of the subject would allow The product vividly illustrates the advances that have been made in the study of angiosperm reproductive systems in the last 30 years and the book is surely destined to become the new standard for student and researcher alike

*Thermodynamics And Statistical Physics* V K Dhas, P S Tambade, B M Laware, 2017-01-16  
1 Kinetic Theory of Gases 2 Maxwell Relations and applications 3 Elementary Concepts of statistics 4 Statistical distribution of system of particles 5 Statistical ensembles 6 Quantum statistics

*Number Theory*, 1986-05-05 This book is written for the student in mathematics Its goal is to give a view of the theory of numbers of the problems with which this theory deals and of the methods that are used We have avoided that style which gives a systematic development of the apparatus and

have used instead a freer style in which the problems and the methods of solution are closely interwoven We start from concrete problems in number theory General theories arise as tools for solving these problems As a rule these theories are developed sufficiently far so that the reader can see for himself their strength and beauty and so that he learns to apply them Most of the questions that are examined in this book are connected with the theory of diophantine equations that is with the theory of the solutions in integers of equations in several variables However we also consider questions of other types for example we derive the theorem of Dirichlet on prime numbers in arithmetic progressions and investigate the growth of the number of solutions of congruences

*A Textbook of Physical Chemistry - Volume 1* Mandeep Dalal, 2018-01-01 An advanced level textbook of physical chemistry for the graduate B Sc and postgraduate M Sc students of Indian and foreign universities This book is a part of four volume series entitled A Textbook of Physical Chemistry Volume I II III IV CONTENTS Chapter 1 Quantum Mechanics I Postulates of quantum mechanics Derivation of Schrodinger wave equation Max Born interpretation of wave functions The Heisenberg s uncertainty principle Quantum mechanical operators and their commutation relations Hermitian operators elementary ideas quantum mechanical operator for linear momentum angular momentum and energy as Hermitian operator The average value of the square of Hermitian operators Commuting operators and uncertainty principle  $x \cdot E$  Schrodinger wave equation for a particle in one dimensional box Evaluation of average position average momentum and determination of uncertainty in position and momentum and hence Heisenberg s uncertainty principle Pictorial representation of the wave equation of a particle in one dimensional box and its influence on the kinetic energy of the particle in each successive quantum level Lowest energy of the particle Chapter 2 Thermodynamics I Brief resume of first and second Law of thermodynamics Entropy changes in reversible and irreversible processes Variation of entropy with temperature pressure and volume Entropy concept as a measure of unavailable energy and criteria for the spontaneity of reaction Free energy enthalpy functions and their significance criteria for spontaneity of a process Partial molar quantities free energy volume heat concept Gibb s Duhem equation Chapter 3 Chemical Dynamics I Effect of temperature on reaction rates Rate law for opposing reactions of 1st order and 2nd order Rate law for consecutive Collision theory of reaction rates and its limitations Steric factor Activated complex theory Ionic reactions single and double sphere models Influence of solvent and ionic strength The comparison of collision and activated complex theory Chapter 4 Electrochemistry I Ion Ion Interactions The Debye Huckel theory of ion ion interactions Potential and excess charge density as a function of distance from the central ion Debye Huckel reciprocal length Ionic cloud and its contribution to the total potential Debye Huckel limiting law of activity coefficients and its limitations Ion size effect on potential Ion size parameter and the theoretical mean activity coefficient in the case of ionic clouds with finite sized ions Debye Huckel Onsager treatment for aqueous solutions and its limitations Debye Huckel Onsager theory for non aqueous solutions The solvent effect on the mobility at infinite dilution Equivalent conductivity vs concentration  $\kappa \cdot c$  as a function of the solvent Effect of ion

association upon conductivity Debye Huckel Bjerrum equation Chapter 5 Quantum Mechanics II Schrodinger wave equation for a particle in a three dimensional box The concept of degeneracy among energy levels for a particle in three dimensional box Schrodinger wave equation for a linear harmonic oscillator Zero point energy of a particle possessing harmonic motion and its consequence Schrodinger wave equation for three dimensional Rigid rotator Energy of rigid rotator Space quantization Schrodinger wave equation for hydrogen atom separation of variable in polar spherical coordinates and its solution Principle azimuthal and magnetic quantum numbers and the magnitude of their values Probability distribution function Radial distribution function Shape of atomic orbitals s p Law of mass action and its thermodynamic derivation Third law of thermodynamics Nernst heat theorem determination of absolute entropy unattainability of absolute zero and its limitation Phase diagram for two completely miscible components systems Eutectic systems Calculation of eutectic point Systems forming solid compounds Ax By with congruent and incongruent melting points Phase diagram and thermodynamic treatment of solid solutions Chapter 7 Chemical Dynamics II Chain reactions hydrogen bromine reaction pyrolysis of acetaldehyde decomposition of ethane Photochemical reactions hydrogen bromine General treatment of chain reactions ortho para hydrogen conversion and hydrogen bromine reactions Apparent activation energy of chain reactions Chain length Rice Herzfeld mechanism of organic molecules decomposition acetaldehyde Branching chain reactions and explosions H<sub>2</sub> O<sub>2</sub> reaction Kinetics of one intermediate enzymatic reaction Michaelis Menton treatment Evaluation of Michaelis s constant for enzyme substrate binding by Lineweaver Burk plot and Eadie Hofstae methods Competitive and non competitive inhibition Chapter 8 Electrochemistry II Ion Transport in Solutions Ionic movement under the influence of an electric field Mobility of ions Ionic drift velocity and its relation with current density Einstein relation between the absolute mobility and diffusion coefficient The Stokes Einstein relation The Nernst Einstein equation Walden s rule The Rate process approach to ionic migration The Rate process equation for equivalent conductivity Total driving force for ionic transport Nernst Planck Flux equation Ionic drift and diffusion potential the Onsager phenomenological equations The basic equation for the diffusion Planck Henderson equation for the diffusion potential

[An Introduction to Nanoscience and Nanotechnology](#) Alain Nouailhat, 2008-01-14 Part of this book adapted from Introduction aux nanosciences et aux nanotechnologies published in France by Hermes Science Lavoisier in 2006

**Applications of Mossbauer Spectroscopy** Richard L. Cohen, 2012-12-02 Applications of Mossbauer Spectroscopy Volume I is a collection of essays that discusses the research performed using Mossbauer spectroscopy The book presents the effect of some stabilizers of polyethylene It demonstrates the polymerization processes and structure of catalytically active centers The text also describes the chemical processes in butyl rubber vulcanization It discusses the experimental studies of iron transport proteins and the thermal decomposition of solids The section that follows describes the paramagnetic hyperfine structure The book will provide valuable insights for scientists chemists students and researchers in the field of organic chemistry

**ELECTRICITY AND MAGNETISM (2 Credits)**

**Physics** P. S. Tambade, B. M. Laware, S. D. Aghav, 2019-11 The book entitled Electricity and Magnetism is written in a simple and lucid language as possible It will be helpful for understanding of Electrostatics Dielectrics Magnetization Magnetostatics and Magnetic Properties of Materials Multiple choice questions and true and false type questions are also added which are useful for competitive exam The content included in the section will surely increase problem solving skills Practical Organic Chemistry Frederick George Mann, Bernard Charles Saunders, 1975 A Clear And Reliable Guide To Students Of Practical Organic Chemistry At The Undergraduate And Postgraduate Levels This Edition S Special Emphasis Is On Semi Micro Methods And Modern Techniques And Reactions *Microcontrollers: Theory and Applications* Ajay V. Deshmukh, 2005-05 Radiation Oncology Physics International Atomic Energy Agency, 2005 This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology The information will be useful to those preparing for professional certification exams in radiation oncology medical physics dosimetry or radiotherapy technology *Computer Graphics and Virtual Reality* Hamid R. Arabnia, Leonidas Deligiannidis, Ashu M. G. Solo, 2015-05 Computer Graphics and Virtual Reality is a compendium of articles and papers that were presented at CGVR 13 an international conference that serves researchers scholars professionals students and academicians Principles of Electronics Colin David Simpson, 1996 Assuming readers have a basic understanding of algebra and trigonometry Simpson offers a concise and practical overview of the basic principles theorems circuit behavior and problem solving procedures of this intriguing and fast paced science The main goal of the text is to make what can be difficult subject matter substantially more accessible retainable and usable This book takes the first 18 chapters of Simpson s Principles of DC AC Circuits and adds 5 chapters of devices coverage **Introduction to Atomic Spectra** Harvey Elliott White, 1934

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