

# BOARD QUESTION PAPER: MARCH 2022

## CHEMISTRY

Time: 3 Hrs

Max. Marks: 70

### General Instructions:

The question paper is divided into four sections.

- (1) **Section A:** Q. No. 1 contains Ten multiple choice type of questions carrying One mark each.  
Q. No. 2 contains Eight very short answer type of questions carrying One mark each.
- (2) **Section B:** Q. No. 3 to Q. No. 14 are Twelve short answer type of questions carrying Two marks each. (Attempt any Eight).
- (3) **Section C:** Q. No. 15 to Q. No. 26 are Twelve short answer type of questions carrying Three marks each. (Attempt any Eight).
- (4) **Section D:** Q. No. 27 to Q. No. 31 are Five long answer type of questions carrying Four marks each. (Attempt any Three).
- (5) Use of log table is allowed. Use of calculator is not allowed.
- (6) Figures to the right indicate full marks.
- (7) For each multiple choice type of question, it is mandatory to write the correct answer along with its alphabet, e.g. (a)...../(b)...../(c)...../(d)..... etc.

No marks(s) shall be given, if ONLY the correct answer or the alphabet of the correct answer is written. Only the first attempt will be considered for evaluation.

### SECTION – A

Q.1. Select and write the correct answer for the following multiple choice type of questions:

[10]

- (i) The co-ordination number of atoms in body centred cubic structure (bcc) is \_\_\_\_\_.  
(a) 4                      (b) 6                      (c) 8                      (d) 12
- (ii) In calculating osmotic pressure, the concentration of solute is expressed in \_\_\_\_\_.  
(a) molarity                      (b) molality  
(c) mole fraction                      (d) percentage mass
- (iii) The enthalpy change for the chemical reaction  $\text{H}_2\text{O}_{(s)} \longrightarrow \text{H}_2\text{O}_{(g)}$  is called enthalpy of \_\_\_\_\_.  
(a) vapourisation                      (b) fusion  
(c) combustion                      (d) sublimation
- (iv) Which of the following transition element shows maximum oxidation state?  
(a) Sc                      (b) Fe                      (c) Mn                      (d) V
- (v) The correct formula for the complex compound, sodium hexacyanoferrate (III) is \_\_\_\_\_.  
(a)  $\text{Na} [\text{Fe}(\text{CN})_6]$                       (b)  $\text{Na}_2 [\text{Fe}(\text{CN})_6]$   
(c)  $\text{Na}_3 [\text{Fe}(\text{CN})_6]$                       (d)  $\text{Na}_4 [\text{Fe}(\text{CN})_6]$

# Mah Board Chemistry Paper Of Chp Solid State

**Rakesh Kumar Sonker, Kedar  
Singh, Rajendra Sonkawade**



## **Mah Board Chemistry Paper Of Chp Solid State:**

**Smart Nanostructure Materials and Sensor Technology** Rakesh Kumar Sonker, Kedar Singh, Rajendra Sonkawade, 2022-08-25 This book highlights the significance and usefulness of nanomaterials for the development of sensing devices and their real life applications The book also addresses various means of synthesizing 2D 3D nanomaterials e g hydrothermal deposition process electrospinning Ostwald ripening sputtering heterogeneous deposition liquid phase preparation the vapor deposition approach and aerosol flame synthesis It presents an informative overview of the role of nanoscale materials in the development of advanced sensor devices at nanoscale and discusses the applications of nanomaterials in different forms prepared by diverse techniques in the field of optoelectronics and biomedical devices Major features such as type of nanomaterials fabrication methods applications tasks benefits and restrictions and saleable features are also covered *Green and Sustainable Approaches Using Wastes for the Production of Multifunctional Nanomaterials* Abhishek Kumar Bhardwaj, Kuldip Dwivedi, Mika Sillanpää, Arun Lal Srivastav, 2024-01-19 *Green and Sustainable Approaches Using Wastes for the Production of Multifunctional Nanomaterials* focuses on the examination of green synthesis utilizing green waste materials derived from home and industrial applications This book also examines the current state of material generations future problems and their industrial constraints and the synthesis of NMs for various applications such as medicinal agriculture environmental food and beverage storage and so on The book includes the most recent practical and theoretical aspects of the use of waste materials released in the fabrication of various types of valuable nanomaterials such as metal metal oxide polymeric and graphene among others This is a relatively new concept in waste utilization and green synthesis is a viable resource in making NPs This book will also be valuable for waste management professionals who need proper disposal techniques for by products Provides various types of waste management helps to develop innovative ideas Discusses waste to valuable wealth waste resources management approaches to focus sustainable development pollution reduction and alternative options for smooth recovery of resources Contains advanced information about green nanotechnology Annual Report - Engineering Experiment Station, University of Wisconsin University of Wisconsin. Engineering Experiment Station, 1980 Annual Report - University of Wisconsin--Madison, Engineering Experiment Station University of Wisconsin--Madison. Engineering Experiment Station, 1980 **American Agriculturist**, 1896 Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh, 1968 **Solid State Chemistry: Selected Papers Of C N R Rao** S K Joshi, Ragunath A Mashelkar, 1995-02-28 Solid State Chemistry today is a frontier area of mainstream chemistry and plays a vital role in the development of materials The present work consisting of a selection of Prof C N R Rao s papers covers most of the important aspects of solid state chemistry and provides the flavor of the subject showing how the subject has evolved over the years The book is up to date and will be useful to students teachers beginning researchers and practitioners in solid state

chemistry as well as in the broader area of materials science      **Solid State Chemistry** Chintamani Nagesa Ramachandra Rao, S. K. Joshi, R. A. Mashelkar, 1995 Solid State Chemistry today is a frontier area of mainstream chemistry and plays a vital role in the development of materials The present work consisting of a selection of Prof C N R Rao's papers covers most of the important aspects of solid state chemistry and provides the flavor of the subject showing how the subject has evolved over the years The book is up to date and will be useful to students teachers beginning researchers and practitioners in solid state chemistry as well as in the broader area of materials science      Solid State Chemistry Elaine A. Moore, Jennifer Readman, 2025-05-22 Solid State Chemistry An Introduction 6th Edition is a fully revised edition of one of our most successful textbooks with at least 20% new information and new images of crystal structures Solid state chemistry is still a rapidly advancing field contributing to areas such as batteries for transport and energy storage nanostructured materials and porous materials for the capture of carbon dioxide and other pollutants This edition aims as previously not only to teach the basic science that underpins the subject but also to direct the reader to the most modern techniques and to expanding and new areas of research The user friendly style takes a largely non mathematical approach and gives practical examples of applications of solid state materials and concepts The chapter on sustainability written by an expert in the field has been updated and examples of the relevance of solid state chemistry to sustainability are used throughout The chapter on batteries has been extended to include fuel cells Other new topics in this edition include X ray free electron laser crystallography and thermal properties of materials A companion website offering accessible resources for students and instructors alike featuring topics and tools such as quizzes videos web links and more has been provided for this edition      **Solid State Chemistry**, 1974      Chemistry of the Solid State William Edward Garner, 1956      **Solid State Chemistry** Lesley E. Smart, Elaine A. Moore, 2016-04-19 Building a foundation with a thorough description of crystalline structures Solid State Chemistry An Introduction Fourth Edition presents a wide range of the synthetic and physical techniques used to prepare and characterize solids Going beyond basic science the book explains and analyzes modern techniques and areas of research The book covers A range of synthetic and physical techniques used to prepare and characterize solids Bonding superconductivity and electrochemical magnetic optical and conductive properties STEM ionic conductivity nanotubes and related structures such as graphene metal organic frameworks and FeAs superconductors Biological systems in synthesis solid state modeling and metamaterials This largely nonmathematical introduction to solid state chemistry includes basic crystallography and structure determination as well as practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations and serve them well throughout their degree course New in the Fourth Edition Coverage of multiferroics graphene and iron based high temperature superconductors the techniques available with synchrotron radiation and metal organic frameworks MOFs More space devoted to electron microscopy and preparative methods New discussion of conducting polymers in the expanded section on carbon nanoscience

**Advances in Solid State Chemistry** Indian National Science Academy, 1986      Solid State Chemistry D.K. Chakrabarty, 2007      **Solid State Chemistry and its Applications** Anthony R. West, 2014-01-08

Solid State Chemistry and its Applications 2nd Edition Student Edition is an extensive update and sequel to the bestselling textbook Basic Solid State Chemistry the classic text for undergraduate teaching in solid state chemistry worldwide Solid state chemistry lies at the heart of many significant scientific advances from recent decades including the discovery of high temperature superconductors new forms of carbon and countless other developments in the synthesis characterisation and applications of inorganic materials Looking forward solid state chemistry will be crucial for the development of new functional materials in areas such as energy catalysis and electronic materials This revised edition of Basic Solid State Chemistry has been completely rewritten and expanded to present an up to date account of the essential topics and recent developments in this exciting field of inorganic chemistry Each section commences with a gentle introduction covering basic principles progressing seamlessly to a more advanced level in order to present a comprehensive overview of the subject This new Student Edition includes the following updates and new features Expanded coverage of bonding in solids including a new section on covalent bonding and more extensive treatment of metallic bonding Synthetic methods are covered extensively and new topics include microwave synthesis combinatorial synthesis mechano synthesis atomic layer deposition and spray pyrolysis Revised coverage of electrical magnetic and optical properties with additional material on semiconductors giant and colossal magnetoresistance multiferroics LEDs fibre optics and solar cells lasers graphene and quasicrystals Extended chapters on crystal defects and characterisation techniques Published in full colour to aid comprehension Extensive coverage of crystal structures for important families of inorganic solids is complemented by access to CrystalMaker visualization software allowing readers to view and rotate over 100 crystal structures in three dimensions Solutions to exercises and supplementary lecture material are available online Solid State Chemistry and its Applications 2nd Edition Student Edition is a must have textbook for any undergraduate or new research worker studying solid state chemistry      Principles of Solid State Chemistry P. P. Budnikov, 1948\*      **Solid State Chemistry** Lesley E. Smart, Elaine A. Moore, 2005-06-24

Intended for first and second year undergraduates this introduction to solid state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations The third edition of Solid State Chemistry An Introduction has been comprehensively revised and updated Building a foundation with a thorough description of crystalline structures the book presents a wide range of the synthetic and physical techniques used to prepare and characterize solids Other fundamental discussions include bonding superconductivity and electrochemical magnetic optical and conductive properties The authors have added sections on fuel cells and electrochromic materials conducting organic polymers organic superconductors and fullerenes mesoporous solids and ALPOs photonics giant magnetoresistance GMR and colossal magnetoresistance CMR and p wave triplet superconductors The book also includes a

completely new chapter which examines the solid state chemical aspects of nanoscience Each chapter contains a set of review questions and an accompanying solutions manual is available Solid State Chemistry An Introduction Third Edition is written in a clear approachable style that enhances the material by integrating its concepts in the context of current applications and areas of promising research      *Solid state chemistry* Chintamani Nagesa Ramachandra Rao,1984      **Solid State Chemistry** Lesley Smart,1993      *Principles of Solid State Chemistry* Petr Petrovich Budnikov,Arkadiĭ Mikhaĭlovich Ginstling,1968

Mah Board Chemistry Paper Of Chp Solid State: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. Mah Board Chemistry Paper Of Chp Solid State : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mah Board Chemistry Paper Of Chp Solid State : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mah Board Chemistry Paper Of Chp Solid State : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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weltmeister er startete von 2007 bis 2022 bei 299 großen preisen in der formel 1 und gewann in der saison 2010 als zweiter deutscher nach michael schumacher und bislang jüngster fahrer die weltmeisterschaft

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web sebastian vettel german pronunciation ze'basti a : n 'fetl born 3 july 1987 is a german racing driver who competed in formula one from 2007 to 2022 for bmw sauber toro rosso red bull ferrari and aston martin

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