

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) $\text{Na}_4 [\text{Fe}(\text{CN})_6]$

Hsc Chemistry Question Paper 201

Richard Bailey

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Flexible Devices Based on Metal Oxides Daniela Nunes, Ana Pimentel, Pedro Barquinha, M.J. Mendes, J. Coelho, Elvira Fortunato, Rodrigo Martins, Henrique Vazão de Almeida, 2024-11-29 Flexible devices based on metal oxides Achievements and prospects focuses on the integration of flexibility in electronic circuitry sensing applications energy conversion and storage and environmental remediation Flexibility in these applications offers great potential especially in the areas of wearable sensors solar cells transistors electronic skin and human body monitoring The book investigates flexible and wearable devices based on metal oxide nanostructures or thin films that are capable of bending rolling compression and folding all while maintaining their performance Metal oxide nanomaterials display exceptional properties that include mechanical stress tolerance high optical transparency high carrier mobilities wide band gap high dielectric constant and superconductivity amongst others In some cases they are also earth abundant environmentally benign cost effective chemically stable and compatible with low cost wet chemical synthesis routes The focus of the book is on wearables manufactured using sustainable manufacturing methods and integrated into substrates that are flexible inexpensive recyclable abundant and lightweight including polymer textile cellulose and cork substrates Provides a comprehensive guide to flexibility in next generation devices and applications Emphasizes green technologies and sustainability in production including substrates Considers current and future problems for the continued development of flexible devices and applications *Australian National Bibliography* ,1991 **Handbook of Research on Science Teaching and Learning** Dorothy Gabel, 1994

Sponsored by the National Science Teachers Association this handbook provides a uniquely comprehensive and current survey of the best research in science education compiled by the most renowned researchers More than summaries of findings the content provides an assessment of the significance of research evaluates new developments and examines current conflicts controversies and issues in the major science disciplines biology chemistry physics and earth science

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The Top Books of the Year Hsc Chemistry Question Paper 201 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. Hsc Chemistry Question Paper 201 : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Hsc Chemistry Question Paper 201 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling 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 captivating 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 brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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