#### 2015

## Subject: Chemistry (Honours)

### Paper: V

### Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as for as practicable.

## 1. Answer any four questions:

 $2 \times 4 = 8$ 

- (a) Depict the ambidentate and flexidentate behaviours of thiocyanate anion.
- (b) SiCl<sub>4</sub> has lower boiling point than CCl<sub>4</sub>.- Explain.
- (c) Cite and draw one example each of 3c-2e and 2c- 2e bonds.
- (d) Briefly comment on the compound K,C,
- (e) Write down the structural formulae of sodium pyrophosphate and sodium metaphosphate.
- (f) What is meant by chalcogenide? Give example.
- (g) 'NaOH is base but ClOH is acid'- Give reason.

### 2. Answer any three questions:

 $6 \times 3 = 1.8$ 

a) (i) What are inner metallic complexes? Give example.

2

(ii) Chromium(III) chloride forms three different hydrates of the same mole ratio Cr:Cl:H<sub>2</sub>O=1:3:6. The violet form does not lose water over conc. H<sub>2</sub>SO<sub>4</sub> and gives 3 equivalent of AgCl on treatment with AgNO<sub>3</sub>. The other two forms are green and lose 1 and 2 moles of H<sub>2</sub>O over conc. H<sub>2</sub>SO<sub>4</sub> and give 2 and 1 equivalent of AgCl, respectively with AgNO<sub>3</sub>. Write down the structrures of the three isomeric coordination compounds and explain the isomerism involved.

(b) (i) Define and exemplify chelate complex.

3

- (ii) 'The stability of [Ni(en)<sub>1</sub>]<sup>2\*</sup> (en=ethylenediamine) is much greater than that of [Ni(NH<sub>2</sub>)<sub>0</sub>]<sup>2\*</sup>, although both contain six Ni-N bonds.' Explain.
- (c) (i) Apply radius ratio principle to explain the difference between crystal structures of NaCl and CsCl.
  - (ii) 'MgO is a stable ionic solid though large amount of energy is required to form Mg to Mg<sup>2+</sup> and to dissociate O<sub>2</sub> into atomic oxygen and thereafter to form O<sup>2-</sup> ion.'- Account for the fact.

# <u>Microbiology University Of Burdwan Previous Year</u> <u>Question Papers</u>

Raffaela Di Napoli

**Microbiology University Of Burdwan Previous Year Question Papers:** 

The Top Books of the Year Microbiology University Of Burdwan Previous Year Question Papers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Microbiology University Of Burdwan Previous Year Question Papers: Colleen Hoovers "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. 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 compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: 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 weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## Table of Contents Microbiology University Of Burdwan Previous Year Question Papers

- 1. Understanding the eBook Microbiology University Of Burdwan Previous Year Question Papers
  - The Rise of Digital Reading Microbiology University Of Burdwan Previous Year Question Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Microbiology University Of Burdwan Previous Year Question Papers
  - 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 an Microbiology University Of Burdwan Previous Year Question Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Microbiology University Of Burdwan Previous Year Question Papers
  - Personalized Recommendations
  - o Microbiology University Of Burdwan Previous Year Question Papers User Reviews and Ratings
  - Microbiology University Of Burdwan Previous Year Question Papers and Bestseller Lists
- 5. Accessing Microbiology University Of Burdwan Previous Year Question Papers Free and Paid eBooks
  - Microbiology University Of Burdwan Previous Year Question Papers Public Domain eBooks
  - Microbiology University Of Burdwan Previous Year Question Papers eBook Subscription Services
  - Microbiology University Of Burdwan Previous Year Question Papers Budget-Friendly Options
- 6. Navigating Microbiology University Of Burdwan Previous Year Question Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Microbiology University Of Burdwan Previous Year Question Papers Compatibility with Devices
  - o Microbiology University Of Burdwan Previous Year Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology University Of Burdwan Previous Year Question Papers
  - Highlighting and Note-Taking Microbiology University Of Burdwan Previous Year Question Papers
  - o Interactive Elements Microbiology University Of Burdwan Previous Year Question Papers
- 8. Staying Engaged with Microbiology University Of Burdwan Previous Year Question Papers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Microbiology University Of Burdwan Previous Year Question Papers
- 9. Balancing eBooks and Physical Books Microbiology University Of Burdwan Previous Year Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microbiology University Of Burdwan Previous Year Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Microbiology University Of Burdwan Previous Year Question Papers
  - Setting Reading Goals Microbiology University Of Burdwan Previous Year Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbiology University Of Burdwan Previous Year Question Papers
  - o Fact-Checking eBook Content of Microbiology University Of Burdwan Previous Year Question Papers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - $\circ$  Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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