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15CHE12/22

## First/Second Semester B.E. Degree Examination, June/July 2016 Engineering Chemistry

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing one full question from each module.*

### Module-1

- 1 a. Explain the construction and working of silver-silver chloride electrode. (05 Marks)  
 b. What are ion selective electrodes? Discuss the construction and working of a glass electrode. (06 Marks)  
 c. Explain the construction and working of Zinc-Air cell. (05 Marks)

OR

- 2 a. Derive Nernst expression for single electrode potential. (05 Marks)  
 b. Explain the following battery characteristics : (06 Marks)  
     i) Energy efficiency  
     ii) Shelf life  
     iii) Cycle life  
 c. Explain the construction and working of Methanol - Oxygen fuel cell with  $H_2SO_4$  electrolyte. (05 Marks)

### Module-2

- 3 a. Explain electrochemical theory of corrosion with an example. (05 Marks)  
 b. Discuss the differential metal corrosion with an example. (05 Marks)  
 c. What is electroless plating? Mention the differences between electroplating and electroless plating. (06 Marks)

OR

- 4 a. Discuss the following factors influencing nature of electrodeposit. (06 Marks)  
     i) Brighteners  
     ii) Levellers and  
     iii) pH  
 b. Explain electroplating of Decorative chromium. (05 Marks)  
 c. Discuss the process of Galvanization of Iron sheet. (05 Marks)

### Module-3

- 5 a. How Calorific value of a solid fuel is determined using bomb calorimeter? (05 Marks)  
 b. What is meant by cracking? Describe with a neat diagram, fluidized bed cracking method. (06 Marks)  
 c. Explain the construction and working of a photovoltaic cell. (05 Marks)

# Engineering Chemistry Question Paper May 2016 First

**Karin Nielsen-Saines**



**Engineering Chemistry Question Paper May 2016 First:**

The Top Books of the Year Engineering Chemistry Question Paper May 2016 First The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant 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. Engineering Chemistry Question Paper May 2016 First : 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 spins a tale of resilience, survival, and the transformative power of nature, entrancing 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 captivating stories waiting to be discovered. The novel begins with Richard Papan, 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 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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