

Reg.No:

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SNS College of Technology, Coimbatore-35.

(Autonomous)

B.E/B.Tech- Internal Assessment -II

Academic Year 2023-2024 (ODD)

First Semester

Department of Science and Humanities

23CHT101- ENGINEERING CHEMISTRY

Time: 1^{1/2} Hours

Maximum Marks: 50

B

Answer All Questions

PART - A (5 x 2 = 10 Marks)

	CO	Blooms
1. Analyse the reasons for using hydrogen as fuel.	CO2	Ana
2. List out any applications of Lithium ion battery?	CO2	Und
3. Distinguish between molecules ,bulk materials and nanoparticles	CO3	Und
4. What is Top down approach? Give an example	CO3	Rem
5. Write the principle involved in laser ablation method.	CO3	Und

PART - B (13+13+14=40 Marks)

	CO	Blooms
6a. i. Illustrate the construction and working of Zinc –Air battery with a neat diagram.	7 CO2	Und
ii. Apply your knowledge to discuss about principle, construction and working of battery used in laptops, mobile phones.	6 CO2	App
(OR)		
6b. i. With neat diagram discuss the construction and working of super capacitor.	7 CO2	Und
ii. Explain any two methods to generate hydrogen as a fuel from the natural resources.	6 CO2	App
7a. i. Discuss the method used for preparation of carbon nanotubes from gaseous phase.	9 CO3	Ana
ii. List out the properties and uses of CNT.	4 CO3	Rem
(OR)		
7b. Discuss in detail about applications of nanomaterials in various fields.	13 CO3	App
8a. i. With the help of electrochemical reactions , Explain the construction and working of fuel cell used for spacecraft applications.	14 CO2	App
(OR)		
8b. i. Give an account of wet chemical method used for synthesizing nanoparticles	14 CO3	Ana

Abbreviations: CO-Course outcome, Rem- Remember, Und- Understand, App-Apply, Ana-Analyse, Eva- Evaluate, Cre- Create



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